

Champaign-Urbana 1997 Annual Weather Summary

ILLINOIS STATE WATER SURVEY

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On the whole 1997 was a near-normal year in both temperature and precipitation, but included wide swings in the weather.

January started out unusually warm, with temperatures in the 50s and 60s the first week. Champaign-Urbana established a record high temperature of 62°F on the 2nd and another record of 64°F on the 4th. The 64°F high on the 4th shattered the old record, set in 1922, by 8 degrees. Cold and snowy weather followed the next three weeks. Record warmth returned again the third week in February, and on the 18th Champaign reached a high of 61°F.

The spring (March, April, May) was cool, with March the only spring month with above normal temperatures. April was very cool, and the average daily minimum (35.6°F) was the fifth coldest on record. The monthly mean of 47.6°F tied for the tenth lowest on record. On April 9th Champaign-Urbana set a record low of 19°F, breaking the old record of 22°F set in 1914. This was followed on April 10th with some light snow, but only a trace was recorded. The last 32°F temperature of the spring was recorded on April 17th, the historical median date. April precipitation was 2.85 inches below average, making this the tenth driest April on record.

May 1997 was the fourth coldest May on record in Champaign-Urbana with a monthly mean temperature of 57.2 degrees. The temperature reached 70°F or higher on only eight days (the average is 11), and 80°F or higher on only three days (average 9). There were no record lows during the month, although many locations in central Illinois set record lows on May 16th and there was scattered frost throughout the area as temperatures dropped into the low and mid 30s.

The cold spring limited the occurrence of severe weather in central Illinois. Some severe thunderstorms were reported in central Illinois on April 5th, but did not reach as far east as Champaign-Urbana.

Average June temperatures were only slightly below normal (-1.5°F), but this was not indicative of the nature of the weather during the month. Daily mean temperatures the first 15 days of June ranged from one to 12 degrees below average, and for the period was 6.6°F below average. The daily mean temperature finally climbed above average on June 18th, the first time since May 24th. The first 90°F reading of the year occurred on June 19th. The first 90°F reading normally occurs in May. During the last two weeks of the month the average daily mean temperature was 5.0°F above average.

The warm summer weather lasted through the first two days of July. Colder air spilled into the Midwest on July 3rd. On the Fourth of July the high temperature was only 68°F, the lowest maximum temperature ever recorded for this date, and the first time the high temperature for the Fourth was less than 70°F. The average high for the date is 85°F. Typical warm summer weather returned about the middle of the month, and the hottest weather of the year occurred on July 26th and 27th with a high of 96°F both days. July precipitation was 1.58 inches below average at this location, but significantly more rain occurred in other parts of Champaign-Urbana. More than four inches of rain fell in the northern and central portions of Champaign, and 3.50 to 4.00 inches of rain were observed in southeast Urbana.



After a warm second half of July, cool weather returned in August. The average maximum temperature (79.7°F) was the fifth coolest on record. On August 6th morning readings in the mid 40s brought record cold to northern and central Illinois. The official low at the Water Survey's observation site was 51°F (the record is 49°F), but two miles south at Willard Airport the temperature dropped to 46°F. August was also the wettest month of 1997 with 7.02 inches of rain, 3.00 inches above normal. A rainstorm on the night of August 16 and early on the morning of August 17 produced 3.83 inches of rain at the Water Survey in a 10-hour period. An event of this magnitude and duration has a return frequency of 18 years. Most of the rain (3.40 inches) fell in the first four hours of the event, a return frequency of 25 years. Severe weather occurred on August 24th when thunderstorms dropped one-inch hail on parts of Champaign.

September was another month noted for its precipitation. The precipitation distribution across Champaign-Urbana varied greatly during September, largely the result of storms on two dates. The first occurred on September 2 when thunderstorms moved from the northwest to the southeast across Champaign-Urbana. Official rainfall at the Water Survey's observing site was only 1.43 inches, but up to 5.50 inches of rain was reported in central Champaign. On September 19th thunderstorms produced more than an inch of rain across the area north of Bradley Avenue, but only a third of an inch over southern portions of the area. The distribution of heavy thunderstorms across Champaign-Urbana resulted in monthly rainfall totals in excess of six inches in the northern part of the area.

October was characterized by two distinctive periods of warmth and cold. The first 13 days of the month were very warm, with temperatures running about 10 degrees above the long-term normal. During this period there were seven days with a high temperature of 80°F, and six of those were consecutive (from the 3rd through the 8th). The record number of consecutive days with 80°F or higher is eight. On October 14th temperatures dropped below normal and remained below normal until the 31st, when the mean daily temperature was 10 degrees above average. Scattered frost occurred around the area on the 14th, and on October 22 the first freeze of the fall occurred when the temperature dipped to 30°F, three days later than normal. The first snow of the season occurred on the morning of October 27th when snow flurries were observed throughout Champaign-Urbana.

The cold weather continued into November. The first measurable snow of the season (0.4 inches) occurred on November 3rd, a tie for the ninth earliest measurable snowfall. The colder than normal weather continued through the 19th, after which temperatures were generally near or above normal.

December was an unremarkable month. Temperatures were generally above average, and the first Arctic outbreak of the season, a weak one at that, did not occur until the 31st. Precipitation was 1.05 inches below average, and the only measurable snow occurring during the first ten days of the month.

A total of only four daily temperatures were equaled or broken in 1997. Record highs were set on January 2 and 4, a record low on April 19, and a record low maximum temperature was established on July 4. The highest temperature during the year was 96°F recorded on both July 26th and 27th, and the lowest was -12°F on January 17th.

SDH

Annual Weather Summary for Champaign-Urbana 1997

-----Temperature-----				-Precipitation-		---Degree Days---				-----Wind-----			
Mon/Year	Monthly			Extremes		Total (in)	Snow (in)	Heat	Cool	Corn Grow	Prev Dir	Ave Speed (mph)	Peak Gust (mph)
	Ave Max	Ave Min	Ave Mean	High Temp	Low Temp								
Jan/1997	28.7	12.2	20.5	64	-12	2.50	15.5	1,373	0	16	W	8.2	33.3
Feb/1997	40.3	26.6	33.5	61	15	3.51	1.1	879	0	14	W	6.9	35.6
Mar/1997	51.9	31.9	41.9	78	15	2.93	T	711	0	79	W	8.0	32.5
Apr/1997	59.4	35.8	47.6	77	19	1.09	T	515	0	164	NE	7.2	48.1
May/1997	67.8	46.5	57.2	85	35	4.69	0.0	248	10	299	W	7.1	38.7
Jun/1997	80.0	60.7	70.4	93	51	2.37	0.0	24	193	603	S	5.0	34.6
Jul/1997	84.9	63.9	74.4	96	54	2.90	0.0	4	303	729	W	4.3	32.1
Aug/1997	79.7	61.1	70.4	92	51	7.02	0.0	5	179	632	NE	3.9	34.6
Sep/1997	77.3	54.4	65.9	89	46	3.40	0.0	51	85	488	NE	4.0	43.6
Oct/1997	65.5	42.8	54.2	86	28	1.96	T	371	41	283	NE *	5.1be	37.3
Nov/1997	44.7	30.8	37.8	64	15	2.56	3.3	811	0	25	N	6.0	31.4
Dec/1997	37.4	26.5	32.0	56	9	1.97	2.9	1,015	0	4	W **	6.0**	28.7
Tot/Ave	59.8	41.1	50.5	96	-12	36.90	22.8	6,007	811	3,336	W **	6.0**	48.1
Dep	-1.3	-0.8	-1.0			-2.84	-5.7	+68	-161	-271	S		-0.9

Remarks: Degree Days: Heat and Cool base 65F. Corn Growing base 50F with a cutoff at 86F.
 **Problems with the anemometer in Champaign. Some data from Bondville used in calculating averages.
 Dep = Departure from climatological average*

NUMBER OF DAYS WITH:

Mon/Year	-----Precipitation-----					-----Temperature-----				-----Weather Conditions-----							---Sky Cond---		
	Snow					Max		Min											
	>=	>=	>=	>=	>=	>=	<=	<=	<=	F	T	A	R	L	S	Z	CLR	PC	CLDY
Jan/1997	11	8	1	0	5	0	21	27	9	5	2	0	4	5	12	2	7	8	16
Feb/1997	9	4	2	1	1	0	6	25	0	3	0	0	8	7	13	0	4	4	20
Mar/1997	12	5	2	1	0	0	1	17	0	0	3	0	12	3	3	0	12	6	13
Apr/1997	11	5	0	0	0	0	0	11	0	5	2	0	13	3	1	0	8	13	9
May/1997	17	10	3	1	0	0	0	0	0	5	7	0	18	2	0	0	8	8	15
Jun/1997	12	6	1	0	0	5	0	0	0	9	4	0	14	4	0	0	4	15	11
Jul/1997	7	5	2	1	0	6	0	0	0	5	6	0	9	0	0	0	17	10	4
Aug/1997	12	9	4	2	0	2	0	0	0	12	7	1	11	6	0	0	6	12	13
Sep/1997	8	7	3	1	0	0	0	0	0	6	5	0	8	6	0	0	11	12	7
Oct/1997	4	3	2	0	0	0	0	3	0	4	0	0	4	3	1	0	14	8	9
Nov/1997	13	10	0	0	2	0	2	19	0	5	1	0	10	8	8	0	6	5	19
Dec/1997	11	4	1	0	0	0	6	26	0	2	0	0	6	7	11	0	7	2	22
Tot	127	76	21	7	8	13	36	128	9	61	37	1	117	54	49	2	104	103	158
Dep	+9	+3	-5	-4	-1	-7	-6	+9	-1	+12	-5	-3	+1	+19	+9	-7	-4	-11	+15

Remarks: Last spring frost was April 17, first fall frost (32F or lower) was Oct 22. Growing season was 188 days (+3 days). Growing season precipitation (Apr 1 through Sep 30) was 21.47 inches (-2.38 inches), 58% of the annual total.

Seasonal Statistics

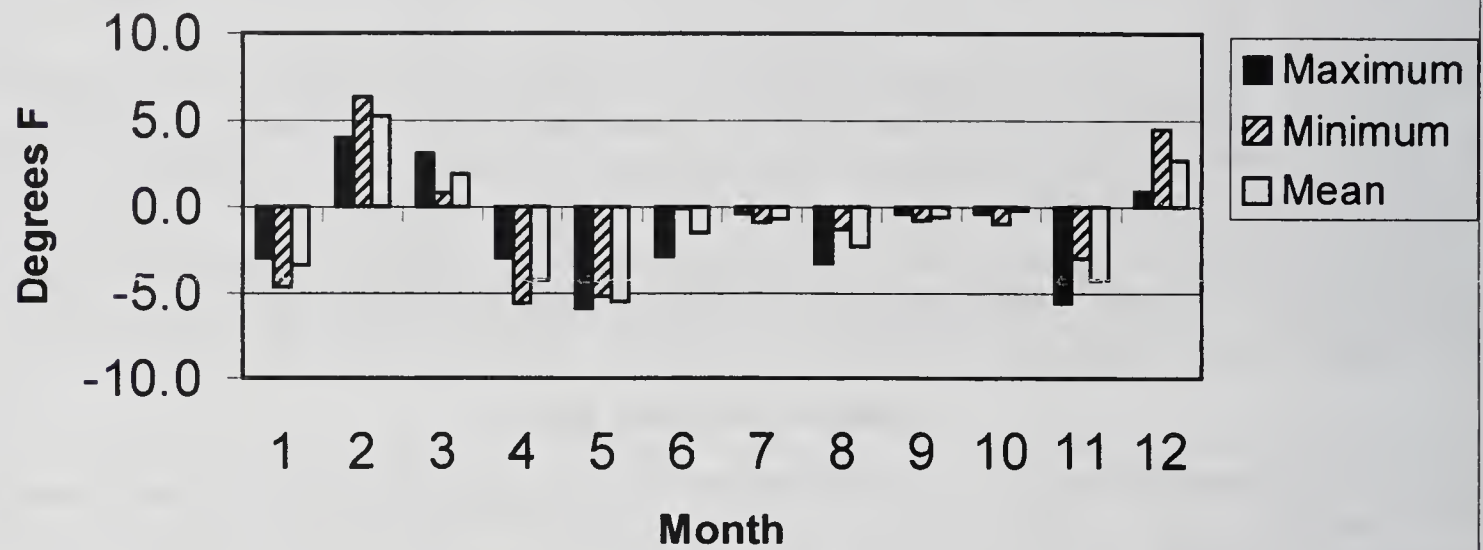
	Mean Temp	Diff. From Avg.*	Precip	Diff. From Avg.*	Snowfall	Diff. From Avg.*
Winter**	28.2	+1.1	7.40	+0.58	24.0	+2.9
Spring	48.9	-2.6	8.71	-2.52	T	-5.1
Summer	71.7	-1.5	12.29	-0.28	N/A	N/A
Fall	52.6	-1.8	7.92	-1.22	3.3	+1.0

**Dec. 96-Feb.97

*All climatological averages based on 1961-1990 data

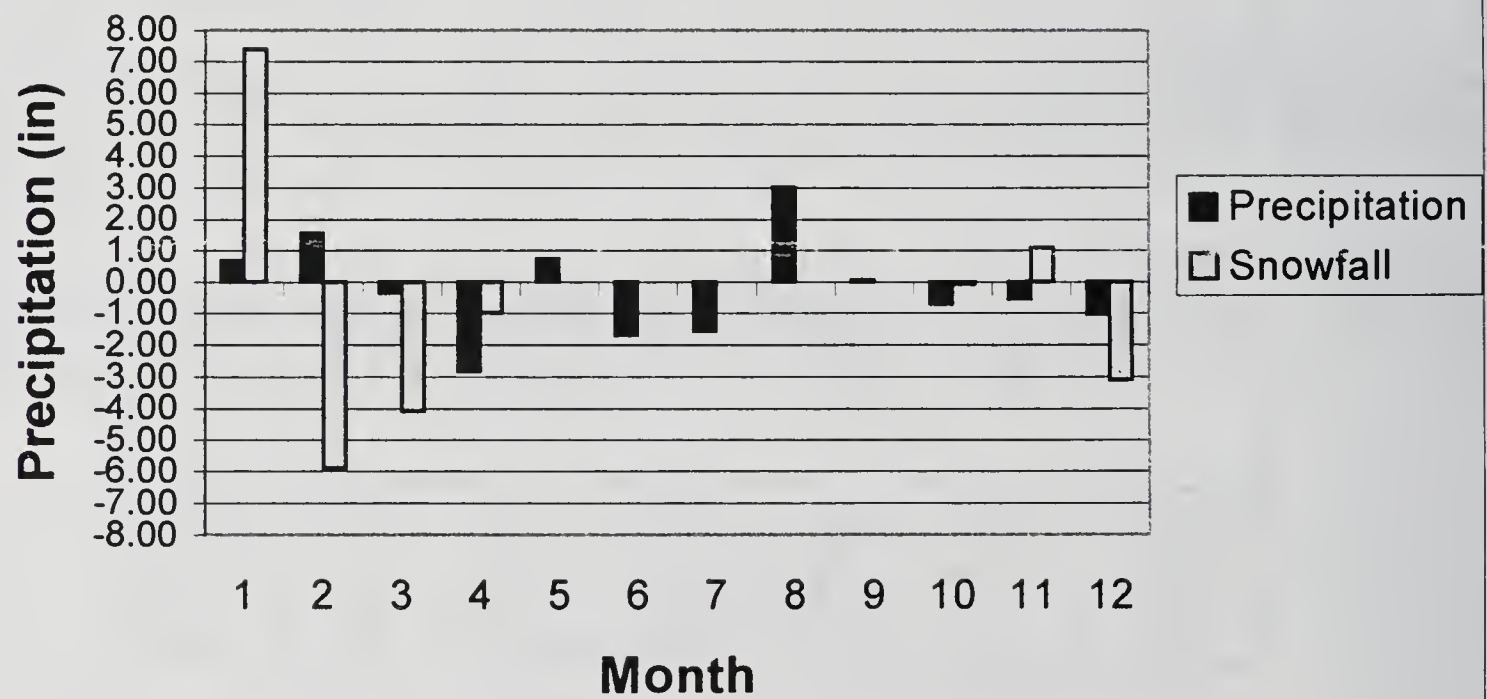
1997 Monthly Max, Min, and Mean Temperatures

Departure from Normal



1997 Precipitation and Snowfall

Departure from Normal



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Champaign-Urbana 1996 Annual Summary

1996 started out with severe weather, ended with severe weather, and had severe weather in the middle. There were thunderstorms sufficiently severe to prompt thunderstorm warnings in February (unusual so early in the year), there was a tornado watch in December, just before Christmas, and there were 2 tornadoes in or near Champaign-Urbana, one in April and one in May.

The tornado in April was by far the most severe weather in Champaign-Urbana in 1996. On April 19th, an F3 tornado touched down in extreme SE Urbana, about 3 miles east of this station. Considerable damage was done to about 15 blocks. The path of the tornado was probably about one mile long. Several houses were totally destroyed, about a dozen lost roofs, and major damage plagued the rest of the houses in the area. Mature trees were essentially eliminated from the landscape. On May 28th, a tornado was sighted about 5 miles NNW of this station, at the intersection of I 57 and I 74, but no damage was reported.

There were 10 daily temperature records that were equaled or broken in 1996. In January, one record maximum temperature was equaled. February had several records equaled or broken: 2 record maximum temperatures equaled (one of those equaled the highest temperature ever set in February in Champaign-Urbana), 3 new record low maximum temperatures, one record minimum temperature equaled, and 1 new record minimum temperature. In March, a new record low daily mean temperature was set. July had a new record low maximum temperature.

Annual precipitation for 1996 was 38.41 inches (1.33 inches below the 30-year average). While more than half the months had below average precipitation, May 1996 was well above average with 8.26 inches (+4.29 inches). It was the 5th wettest May on record in Champaign-Urbana.

The winter of 1995-1996 (Dec '95- Feb '96) had a mean temperature of 26.4F (-0.7F). Total precipitation was 5.09 inches (-1.73 inches) and total snowfall was 22.9 inches (+1.8 inches). Most of the snow fell in January. An interesting temperature-related event happened in January 1996. On two occasions, large temperature drops in relatively short periods of time were observed. The first occurred on Jan 18-19. The temperature dropped from 59F (tied the record maximum for that day) at 11:00 am to -1F at 7 am the next day, a 60 degree drop in 20 hours. This was the 2nd largest temperature drop, from one date to the next, in Champaign-Urbana. The second occurrence was on the 28th of Jan., when the temperature dropped from 37F to 15F,

a 22 degree drop, in 3 hours. The longest period of consecutive days with snow on the ground (trace or greater) was 30 days.

The spring of 1996 (Mar-May) had a mean temperature of 47.4F (-4.1F). This equaled the 2nd coldest spring mean temperature in Champaign-Urbana. Total precipitation was 14.03 inches (+2.82 inches). The last spring frost occurred on April 27th. All three spring months were cold and cloudy (50 cloudy days, 16 clear days). Total snowfall for the spring was 1.7 inches (-3.2 inches).

The summer of 1996 (Jun-Aug) was very near average in temperature. The mean temperature was 72.4F (-1.0F) and the number of days with a maximum temperature of 90F or greater was 16 (-1 day). Total precipitation was 10.43 inches (-2.14 inches). Both June and July were cool, and August was slightly above average in temperature, making for a very pleasant, although somewhat dry summer. July was the 6th coldest July, and August was the 9th driest August in Champaign-Urbana.

The fall of 1996 (Sep-Nov) had a mean temperature of 51.2F (-3.2F) and equaled the 6th coldest fall season in Champaign-Urbana. Precipitation totaled 9.09 inches (-0.04 inch) and snowfall totaled 2.0 inches (-0.1 inch). The date of the first fall frost was Oct 11. The 1996 growing season was 166 days (-19 days). Growing season precipitation (Apr 1 - Sep 30) was 25.67 inches (+1.82 inches, and 67% of the annual total).

Annual mean temperature was 49.6F (-1.9F). There were 16 days with a maximum temperature of 90F or greater (-1 day) and there were 9 days with a minimum temperature of 0F or lower (+1 day). Seasonal heating degree days (Jul 1- Jun 30) totaled 6527, the 6th highest seasonal total for Champaign-Urbana.

Measurable precipitation fell on 114 days (-4 days). One inch or more fell on 9 days (-2 days). Annual snowfall was 29.0 inches (+0.5 inch). There were 47 days with thunder (+5 days), 80 days with fog (+31 days), and 10 days with freezing precipitation (+1 day).

The highest temperature in 1996 was 95F on Jul 18, and the lowest was -17F, a new record minimum for that day, on Feb 3.

There were 80 clear days (-28 days), 109 partly cloudy days (-5 days), and 177 cloudy days (+34 days).

Annual heating degree days totaled 6424 (+485 degree days). Annual cooling degree days totaled 894 (-78 degree days), and corn growing degree days (base of 50F, with a cutoff at 86F) totaled 3420 (-187 degree days).

The prevailing wind direction for 1996 was from the west. The annual 30-year prevailing wind direction is from the south. Annual average wind speed was 6.5 mph (-0.4 mph). The peak gust for the year was 44.8 mph, from the west, on Oct 30th.

Annual Weather Summary for Champaign-Urbana 1996


Mon/Year	-----Temperature-----					-Precipitation-		---Degree Days---			-----Wind-----		
	Monthly		Extremes		Ave	Total	Snow	Heat	Cool	Corn	Prev	Ave	Peak
	Ave	Ave	Ave	High Low								Speed	Gust
	Max	Min	Mean	Temp Temp		(in)	(in)			Grow	Dir	(mph)	(mph)
Jan/1996	30.5	13.4	22.0	59 -9		2.04	16.0	1,330	0	8	SE	9.1	41.7
Feb/1996	38.8	20.4	29.6	71 -17		1.43	1.9	1,020	0	50	W	8.3	36.7
Mar/1996	44.7	23.3	34.0	70 2		2.19	1.7	955	0	39	N	8.5	41.1
Apr/1996	59.4	35.7	47.6	77 24		3.58	T	517	0	158	S	9.6	41.4
May/1996	70.3	50.9	60.6	89 36		8.26	0.0	197	67	381	NE	6.6	34.0
Jun/1996	81.8	60.9	71.4	94 46		5.65	0.0	22	221	627	W	4.9	28.1
Jul/1996	83.2	61.2	72.2	95 52		3.36	0.0	3	230	673	W	4.5	22.7
Aug/1996	83.8	63.5	73.7	94 57		1.42	0.0	0	278	726	NE	3.4	18.4
Sep/1996	75.3	53.9	64.6	86 42		3.40	0.0	97	94	468	NE	3.8	29.3
Oct/1996	66.4	41.9	54.2	81 27		1.55	0.0	334	4	270	SE	5.9	44.8
Nov/1996	41.8	27.9	34.9	68 14		4.14	2.0	895	0	20	NW	6.0	29.0
Dec/1996	37.2	24.2	30.7	58 4		1.39	7.4	1,054	0	0	W	7.3	35.9
Tot/Ave	59.4	39.8	49.6			38.41	29.0	6,424	894	3,420	W	6.5	
Extremes				95 -17									44.8
Dep	-1.7	-2.1	-1.9			-1.33	+0.5	+485	-78	-187	S	-0.4	

Remarks: Degree Days: Heat and Cool base 65F. Corn Growing base 50F with a cutoff at 86F.
Averages based on 1961-1990 data.

Number of Days With

Mon/Year	-----Precipitation-----					----Temperature----				-----Weather Conditions-----							---Sky Cond---		
						Snow		Max		Min									
	>=	>=	>=	>=	>=	>=	<=	<=	<=										
	.01	.10	.50	1.00	1.0	90	32	32	0	F	T	A	R	L	S	Z	CLR	PC	CLDY
Jan/1996	13	6	0	0	5	0	17	29	4	6	0	0	4	7	13	3	5	6	20
Feb/1996	9	2	1	0	1	0	16	21	5	4	2	0	2	5	7	0	6	7	16
Mar/1996	9	5	2	1	1	0	5	24	0	4	3	0	8	5	7	2	7	10	14
Apr/1996	10	6	2	1	0	0	0	14	0	2	6	1	11	8	2	0	3	10	17
May/1996	17	13	6	3	0	0	0	0	0	12	10	2	16	12	0	0	6	6	19
Jun/1996	12	10	4	1	0	7	0	0	0	8	8	0	13	5	0	0	8	8	14
Jul/1996	9	6	2	1	0	5	0	0	0	3	5	0	10	7	0	0	6	13	12
Aug/1996	5	4	1	0	0	4	0	0	0	15	6	0	7	3	0	0	18	7	6
Sep/1996	8	5	2	1	0	0	0	0	0	8	3	0	13	8	0	0	6	13	11
Oct/1996	6	5	1	0	0	0	0	5	0	5	2	0	6	8	0	0	10	14	7
Nov/1996	8	7	4	1	1	0	5	24	0	4	1	0	8	12	6	4	4	8	18
Dec/1996	8	5	0	0	2	0	8	26	0	9	1	0	3	9	11	1	1	7	23
Tot	114	74	25	9	10	16	51	143	9	80	47	3	101	89	46	10	80	109	177
Dep	-4	+1	-1	-2	+1	-4	+9	+24	+1	+31	+5	-1	-15	+54	+6	+1	-28	-5	+34

Averages based on 1961-1990 data



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ILLINOIS STATE WATER SURVEY
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Champaign-Urbana Weather Summary December 1995

Temperature and precipitation in Champaign-Urbana were both below average for December. There were no temperature or precipitation records set this month.

The average monthly maximum temperature was 35.3F (1.2F below the 30-year average). The average monthly minimum temperature was 19.7F (-2.3F) and the average monthly mean temperature was 27.5F (-1.8F). The highest daily maximum temperature in December 1995 was 61F, on the 2nd. The lowest daily minimum temperature was -3F, on the 9th. Daily average temperatures ranged from 27F below average to 15F above the long-term daily averages. There were 16 days when the maximum temperature was 32F or below (+5 days). There were 30 days when the minimum temperature was 32F or below (+4 days), and there was 1 day when the minimum temperature was 0F or below (-1 day).

Total monthly precipitation for December 1995 was 1.62 inches (-1.40 inches). There were only 7 days with measurable precipitation (-4 days). There were 2 days with precipitation of 0.50 inch or greater (+0 days), and none with precipitation of 1.00 inch or greater (-1 day). The heaviest 24-hour precipitation total was 0.86 inches, observed on the 18th. Snowfall for December totaled 5.1 inches (-0.9 inches). The heaviest 24-hour snowfall amount was 3.1 inches, observed on the 19th.

Thunder was not heard in December (-1 day). Fog was observed on 5 days (-1 day). Clear days totaled 8 (+1 day), partly cloudy days 8 (+1 day), and cloudy days 15 (-2 days).

There were 1153 heating degree days in December 1995 (+36). The seasonal total, beginning July 1, 1995, is 2486 (+234, 10% more than average). There were no cooling degree days for the month of December, and the seasonal total, beginning Jan 1, 1995, is 1157 (+185, 19% more than average).

The average wind speed for December 1995 was 6.9 mph (-1.0 mph), and the prevailing direction was from the west (30-year prevailing wind direction for December is from the south). The peak gust for the month was 33.3 mph from the northwest on the 5th.



CHAMPAIGN, IL
WATER SURVEY RESEARCH CENTER

LOCAL CLIMATOLOGICAL DATA
ILLINOIS STATE WATER SURVEY

DECEMBER 1995
SUMMARY

DATE	TEMPERATURE			PRECIP T INCH	SNOW		WEATHER TYPES	WIND		SKY COVER	DEGREE DAYS		REL. HUM.	
	MAX	MIN	MEAN		T INCH	DEPTH		DIR	SPEED		HEAT	COOL	MAX	MIN
12/01/95	59	31	45	.0	.0	0		WSW	8.5	CLR	20	0*	90	M
12/02/95	61*	27	44	.0	.0	0		S	9.2	CLR	21	0	94	44
12/03/95	58	32	45	.0	.0	0		NW	7.3	CLR	20	0	88	32
12/04/95	45	28	37	.0	.0	0		SE	6.3	PC	28	0	95	49
12/05/95	50	23	37	T	.0	0	L	W	9.9	PC	28	0	64	22
12/06/95	33	19	26	T	T	0	SW-	W	4.7	CLDY	39	0	100	34
12/07/95	36	15	26	.0	.0	0		W	5.1	CLR	39	0	98	28
12/08/95	30	7	19	0.10	1.5	0	SW-,SG-	SE	5.7	CLDY	46	0	96	44
12/09/95	8	-3*	3	.0	.0	2		W	16.1	CLR	62*	0	62	44
12/10/95	19	2	11	.0	.0	1		W	11.8	PC	54	0	60	42
12/11/95	18	12	15	T	T	1	SW-	NNE	4.6	CLDY	50	0	58	38
12/12/95	28	15	22	.0	.0	1		NE	5.8	CLDY	43	0	68	48
12/13/95	49	24	37	0.02	.0	T	ZL,L,F	E	6.4	CLDY	28	0	94	80
12/14/95	54	34	44	.0	.0	0		W	8.3	CLDY	21	0	92	60
12/15/95	42	31	37	.0	.0	0	F	N	4.7	PC	28	0	82	60
12/16/95	45	25	35	.0	.0	0	F	NE	3.4	PC	30	0	86	42
12/17/95	44	26	35	0.05	.0	0	R,L	NE	5.1	CLDY	30	0	90	48
12/18/95	34	31	33	0.86*	.0	0	R,L,ZL	NE	9.5	CLDY	32	0	100	86
12/19/95	31	24	28	0.54	3.1*	1	R,L,ZL,SW,S	N	8.9	PC	37	0	86	62
12/20/95	28	17	23	.0	.0	3		W	5.6	CLR	42	0	90	65
12/21/95	26	18	22	.0	.0	3		NW	5.0	CLDY	43	0	84	60
12/22/95	26	18	22	T	T	.0	SW-	W	4.4	CLDY	43	0	92	48
12/23/95	24	19	22	0.03	0.5	4*	SW-	W	5.8	CLDY	43	0	90	70
12/24/95	26	23	25	T	T	3	SW-	SW	9.1	CLDY	40	0	88	72
12/25/95	29	17	23	T	T	3	SW-	NW	6.8	PC	42	0	82	46
12/26/95	32	11	22	T	T	3	SW-	SW	6.5	CLDY	43	0	86	64
12/27/95	28	15	22	.0	.0	3		N	7.8	CLR	43	0	78	50
12/28/95	31	14	23	.0	.0	3		N	4.8	PC	42	0	90	36
12/29/95	30	10	20	.0	.0	3		S	5.4	CLR	45	0	94	64
12/30/95	35	15	25	T	T	3	SW-,F	S	7.4	CLDY	40	0	96	64
12/31/95	36	31	34	0.02	.0	3	L,F	NE	3.3	CLDY	31	0	92	78

TOT/AVE	35.3	19.7	27.5	1.62	5.1		W	6.9		1,153	0
DEP	-1.2	-2.3	-1.8	-1.40	-0.9		S	-1.0		+36	+0

=====NUMBER OF DAYS AND DEPARTURE=====

	MAX TEMP				PRECIPITATION					SNOW >=1.0	SKY COVER		
	>=90	<=32	<=32	<=0	>=T	>=.01	>=.10	>=.50	>=1.00		CLR	PC	CLDY
TOTAL	0	16	30	1	15	7	3	2	0	2	8	8	15
DEP	+0	+5	+4	-1	-	-4	-3	+0	-1	+0	+1	+1	-2

-----WEATHER TYPES-----												SEASONAL HEAT		SEASONAL COOL		JAN-DEC	
F	T	IP	A	R	L	S	Z	D	H	BS		DEGREE DAYS		DEGREE DAYS		PRECIPITATION	
TOTAL	5	0	0	0	3	6	10	3	0	0	0	2486		1157		36.49	
DEP	-1	-1	-	+0	-5	+3	+1	+0	-	-	-	+234		+185		-3.25	

WEATHER TYPES: F=Fog;T=Thunder;IP=Ice Pellets;A=Hail;R=Rain;S=Snow;Z=Freezing Precip;D=Dust;H=Haze;BS=Blowing Snow;
RW=Rain Showers;SW=Snow Showers;L=Drizzle;T=Trace. Intensities: + heavy; - light;absence of symbol indicates moderate.
Degree Days:Heat and Cool base 65F;.Averages based on 1961-1990 data.Snow depth at 7 AM LST.
Sky 7 AM - 7 PM LST.Other data mid-mid. Heat DD season Jul-Jun;Cool season Jan-Dec.
REMARKS: No temperature or precipitation records set this month. Peak gust was 33.3 mph, from the NW, on the 5th.

From: ILLINOIS STATE WATER SURVEY
Audrey Bryan
Phone: 217-333-8890 (10:00am-4:00pm)

Champaign-Urbana 1995 Annual Summary

Total annual precipitation was about 9% below average in Champaign-Urbana (36.49 inches, as opposed to 39.74 inches), but temperature was equal to the 1961-1990 average. The average annual mean temperature was 51.5F (0.0F from the 30-year average). There were 6 temperature records that were equaled or broken in 1995. In January, a new record high minimum temperature was set on the 12th. March recorded two new record maximum temperatures, one on the 14th and one on the 15th. September had one new record minimum temperature, and one record minimum temperature that was equaled. November also had one record minimum temperature equaled.

There were only two months in 1995 that were extreme in temperature. August 1995 was hot and humid in Champaign-Urbana. August 1995 had the third warmest average monthly mean temperature for August. It also had the ninth warmest average monthly maximum temperature and the second warmest average monthly minimum temperature for August. August 1995 also had the third highest monthly total cooling degree days for August. There were no days in August 1995 when the mean daily temperature dropped below average for the day. There were 15 days in August when the temperature was 90F or greater. Nine of those days were consecutive, equaling the fourth longest string of consecutive ≥ 90 F days for August.

On the other hand, November 1995 was cold. It had the fifth lowest average monthly mean temperature for November (records begin 1888), the seventh lowest average monthly maximum temperature, and the second lowest average monthly minimum temperature. There were only 7 days in November 1995 when the mean daily temperature was average or above for the day.

Annual precipitation for 1995 was 36.49 inches (-3.25 inches). While there were two months that were extremely dry (Feb- 5th driest Feb, and Sep- 7th driest Sep in Champaign-Urbana), May 1995 was extremely wet. It was the second wettest May and the fifth wettest month in Champaign-Urbana.

The winter of 1994-1995 (Dec '94-Feb '95) had a mean temperature of 30.6F (+3.5F). Total precipitation was 4.47 inches (-2.35 inches), and total snowfall was 7.4 inches (-13.7 inches). Most of the snow fell in January and February. The longest period of consecutive days with snow on the ground was 11 days, Jan 1st to the 11th. One other interesting thing about the winter was the hail recorded in January. The last time hail was observed in January in Champaign-Urbana was in 1969.

The spring of 1995 (M A M) had a mean temperature of

51.0F (-0.5F). Total precipitation was 16.61 inches (+5.38 inches), and total snowfall was 0.4 inch (-4.5 inches). This was the 6th wettest spring in Champaign-Urbana. There were only 17 clear days this spring, as opposed to 51 cloudy days. The last spring frost occurred on April 5th.

The summer of 1995 (J J A) had a mean temperature of 76.2F (+2.8F), and total precipitation was 9.28 inches (-3.29 inches). This was the 7th warmest summer in Champaign-Urbana. There were 32 days with temperature of ≥ 90 F (+15 days). The cooling degree day total for the summer was the 8th highest total for summer in Champaign-Urbana. The highest temperature of the summer was 100F, on Jul 13. While that was not a record, the last time Champaign-Urbana recorded a temperature of 100F or greater was on Aug 2, 1991.

The fall of 1995 (S O N) had a mean temperature of 51.0F (-3.4F). Total precipitation was 6.41 inches (-2.72 inches) and snowfall totaled 1.9 inches (-0.2 inch). This equaled the 5th coldest fall in Champaign-Urbana. The first frost of the fall occurred on Sep 22. The growing season lasted 169 days (from 4/6/95 - 9/21/95, -16 days). Growing season precipitation (Apr 1-Sep 30) was 23.48 inches (-0.37 inch).

Measurable precipitation fell on 124 days (+6 days) in 1995. One inch or more fell on 7 days (-4 days). Annual snowfall was 14.2 inches (-14.3 inches). There were 42 days with thunder (+0 days), 6 days with hail (+2 days), and 7 days with freezing precipitation (-2 days). There were 81 days with fog (+32 days).

The highest temperature in 1995 was 100F, on July 13th. The lowest temperature was -4F, on January 5th.

There were 94 clear days (-14 days), 107 partly cloudy days (-7 days) and 164 cloudy days (+21 days).

Annual heating degree days totaled 5963 (+24). Annual cooling degree days totaled 1157 (+185) and corn growing degree days (base 50F with a cutoff at 86F) totaled 3759 (+152).

The prevailing wind direction for 1995 was from the west. The annual 30-year prevailing direction is from the south. The annual average wind speed was 6.3 mph (-0.6 mph). The peak gust for the year was 49.7 mph, on April 18th. A new daily average wind speed record was set on November 10th.

Annual Weather Summary for Champaign-Urbana 1995

Mon/Year	-----Temperature-----					-Precipitation-		---Degree Days---		-----Wind-----				
	Monthly			Extremes		Total	Snow	Heat	Cool	Corn	Prev	Ave	Peak	
	Ave	Ave	Ave	High	Low							Speed	Gust	
	Max	Min	Mean	Temp	Temp	(in)	(in)			Grow	Dir	(mph)	(mph)	
Jan/1995	32.8	19.6	26.2	59	-4	2.12	4.3	1,196	0	7	W **	8.5**	34.7*	
Feb/1995	38.5	19.5	29.0	61	-2	0.45	2.5	1,000	0	24	NW	7.7	38.5	
Mar/1995	53.0	33.5	43.3	76	14	2.91	0.4	668	0	126	W	6.7	38.5	
Apr/1995	60.6	39.3	50.0	77	20	3.59	T	443	0	174	W	8.1	49.7	
May/1995	69.3	50.5	59.9	80	42	10.11	0.0	165	14	344	SE **	6.3**	32.5	
Jun/1995	84.0	61.5	72.8	98	51	1.93	0.0	5	244	666	SW	4.3	36.2	
Jul/1995	87.9	65.6	76.8	100	52	1.99	0.0	1	374	782	S	4.9	34.7	
Aug/1995	88.3	69.5	78.9	94	59	5.36	0.0	0	439	859	NE	3.3	39.4	
Sep/1995	76.3	50.9	63.6	89	30	0.50	0.0	115	81	456	SE	4.3	26.7	
Oct/1995	66.3	42.5	54.4	83	29	3.88	0.0	322	5	272	W	6.6e	36.8	
Nov/1995	44.1	25.8	35.0	63	12	2.03	1.9	895	0	32	S	8.3	39.4	
Dec/1995	35.3	19.7	27.5	61	-3	1.62	5.1	1,153	0	17	W	6.9	33.3	
Tot/Ave	61.4	41.5	51.5			36.49	14.2	5,963	1,157	3,759	W	6.3**e		
Extreme				100	-4								49.7	
Dep	+0.3	-0.4	+0.0			-3.25	-14.3	+24	+185	+152	S	-0.6		

Remarks: Degree Days: Heat and Cool base 65F. Corn Growing base 50F with a cutoff at 86F.

* Bondville data used. ** ISWS and Bondville data used to calculate average. e- some data estimated, due to maintenance on equipment .

=====NUMBER OF DAYS WITH=====																			
Mon/Year	-----Precipitation-----					--Temperature--				-----Weather Conditions-----							---Sky Cond---		
						Snow		Max		Min									
	>=	>=	>=	>=	>=	>=	<=	<=	<=	<=	<=	F	T	A	R	L	S	Z	
	.01	.10	.50	1.00	1.0	90	32	32	0										
Jan/1995	13	4	2	0	2	0	17	25	2	6	1	1	8	9	9	2	9	1	21
Feb/1995	7	2	0	0	1	0	9	26	1	5	0	0	5	2	6	1	8	11	9
Mar/1995	10	7	1	1	0	0	3	12	0	5	2	1	10	7	3	1	9	8	14
Apr/1995	17	11	2	0	0	0	0	4	0	4	4	0	16	15	1	0	3	8	19
May/1995	16	11	6	4	0	0	0	0	0	5	9	1	16	16	0	0	5	8	18
Jun/1995	10	4	1	0	0	5	0	0	0	13	7	1	8	9	0	0	5	16	9
Jul/1995	9	5	1	1	0	12	0	0	0	11	4	0	8	8	0	0	13	12	6
Aug/1995	10	9	5	1	0	15	0	0	0	15	9	1	9	11	0	0	9	12	10
Sep/1995	4	2	0	0	0	0	0	2	0	5	2	0	4	7	0	0	10	9	11
Oct/1995	15	9	3	0	0	0	0	4	0	4	2	0	13	12	0	0	12	6	13
Nov/1995	6	5	0	0	1	0	1	26	0	3	2	1	8	7	5	0	3	8	19
Dec/1995	7	3	2	0	2	0	16	30	1	5	0	0	3	6	10	3	8	8	15
Tot	124	72	23	7	6	32	46	129	4	81	42	6	108	109	34	7	94	107	164
Dep	+6	-1	-3	-4	-3	+12	-4	+10	-4	+32	+0	+2	-8	+74	-6	-2	-14	-7	+21

F= Fog; T= Thunder; A= Hail; R= Rain; L= Drizzle; S= Snow; Z= Freezing Precipitation

AVERAGES BASED ON 1961-1990 DATA.

From: ILLINOIS STATE WATER SURVEY

Audrey Bryan

Phone: 217-333-8890 (10:00 am - 4:00 pm)

Champaign-Urbana 1994 Annual Summary

Total precipitation for 1994 was somewhat below average in Champaign-Urbana, however, temperature was equivalent to average. The average annual mean temperature was 51.5, the 1961-1990 average. January had some extremely cold days. The mean temperature on the 15th, tied the 6th coldest mean temperature ever (-10F, records begin 1888). The second coldest maximum temperature ever in Champaign-Urbana was observed on the 18th (-10F). The minimum temperature on the 18th tied the record low set for that day, and also tied the 5th lowest temperature in Champaign-Urbana (-21F). The mean temperature for the 18th tied the coldest mean temperature ever in Champaign-Urbana (-16F). The minimum temperature on the 19th, set a new record low for that day, and also tied the all-time record low for Champaign-Urbana (-25F). The mean temperature on the 19th tied the fourth coldest mean temperature ever (-12F). January, as a month, also had the 10th coldest average monthly maximum for January.

On the other hand, November and December both averaged much warmer than the 1961-1990 means. November had the 6th warmest average monthly MEAN temperature for November, the 7th warmest average monthly MAXIMUM temperature and the 7th warmest average monthly MINIMUM temperature. December had the 9th warmest average monthly MEAN temperature, tied for 9th warmest average monthly MAXIMUM temperature, and had the 10th warmest average monthly MINIMUM temperature for December. Only 4 days in December were below the daily average temperature for that day.

Annual precipitation for 1994 was 37.49 inches (-2.25 inches). While March ended up being the 9th driest March in Champaign-Urbana, April was the 2nd wettest April ever. April 1994 was also the 14th wettest month ever. July was the 9th driest July ever, and November was the 7th wettest November ever in Champaign-Urbana.

The winter of 1993-1994, (D '93, J and F '94) had a mean temperature of 25.0F (-2.1F). Total precipitation was 4.52 inches (-1.36 inches), and total snowfall was 16.3 inches (-2.1) inches. Most of the snow fell in January (7.6 inches, -0.5 inches). The longest period of consecutive days with snow on the ground was 15 days, from Jan 11th to the 25th.

The spring of 1994 (M, A, M) was below average in temperature and above average in precipitation. The mean temperature for spring was 50.3F (-1.2F). Total precipitation for

spring was 14.38 inches (+3.15 inches). The last spring frost occurred on April 8th. A record minimum temperature was equaled on the 7th of April (16F).

The summer of 1994 (J, J, and A) had a mean temperature of 72.9F (-0.5F). The daily temperature reached 90F or greater on 21 days (+4 days). Total precipitation for the summer was 6.92 inches (-5.95 inches).

June had a 10 consecutive day stretch of temperatures of 90F or greater. This was the 2nd longest period for any June in Champaign-Urbana.

A hailstorm on the 8th of August produced pea to golfball sized hailstones. Two of the stones that fell at the Water Survery measured 2.25 inches in diameter.

Fall 1994 (S, O, N) had a average mean temperature of 55.8F (+1.4F). Total precipitation was 11.47 inches (+2.34 inches). The first frost of the fall occurred on Oct 25th. The growing season, from last spring 32F to first fall 32F, was 199 days (+14 days).

In 1994, measurable precipitation fell on 104 days (-14 days). One inch or more fell precipitation fell on 8 days (-3 days). Annual snowfall was 18.1 inches (-10.4 inches). There were 42 days with thunder (+0 days), 4 days with hail (+0 days), and 8 days with freezing precipitation (-1 day). There were 81 days with fog (+32 days, 65% more days than the 1961-1990 average).

There were 92 clear days (-16), 110 partly cloudy days (-4) and 163 cloudy days (+20).

Annual heating degree days (base 65F) totaled 5730 (-209). Cooling degree days (base 65F) totaled 945 (-27). Corn growing degree days (base 50F with a cutoff at 86F) totaled 3633 (+26).

The prevailing wind direction for 1994 was from the west. The 30-year prevailing direction is from the south. The average wind speed for the year was 6.3 mph (-0.6 mph). The peak gust for the year was 51.4 mph from the west on Nov 21st. This was the 5th highest maximum gust for November (records start in 1960).

ANNUAL WEATHER SUMMARY FOR CHAMPAIGN-URBANA 1994

=====MONTHLY VALUES=====								
Mon/Year	---Temperature---			-Precipitation-		-----Degree Days-----		
	Ave Max	Ave Min	Ave Mean	Total (in)	Snow (in)	Heat	Cool	Corn Growing
Jan/1994	26.1	11.3	18.7	1.84	7.6	1,428	0	0
Feb/1994	34.0	17.4	25.7	0.98	5.9	1,093	0	18
Mar/1994	49.9	29.1	39.5	1.10	1.5	783	0	66
Apr/1994	62.4	40.2	51.3	9.27	2.5	414	13	222
May/1994	72.5	47.7	60.1	4.01	0.0	196	53	391
Jun/1994	85.1	63.5	74.3	1.99	0.0	11	299	690
Jul/1994	85.3	63.1	74.2	1.28	0.0	0	293	733
Aug/1994	81.2	59.4	70.3	3.65	0.0	8	182	626
Sep/1994	76.5	54.3	65.4	3.21	0.0	76	96	471
Oct/1994	66.7	45.2	56.0	3.11	0.0	283	9	282
Nov/1994	55.0	37.2	46.1	5.15	0.0 T	559	0	110
Dec/1994	43.6	29.2	36.4	1.90	0.6	879	0	24
Total/Ave	61.5	41.5	51.5	37.49	18.1	5,730	945	3,633
Departure from Ave.	+0.4	-0.4	+0.0	-2.25	-10.4	-209	-27	+26

=====NUMBER OF DAYS WITH=====																		
Month/Year	----Precipitation----					-Temperature-												
	>= .01	>= .10	>= .50	>= 1.00	Snow >= 1.0	-Max- >= 90	<= 32	-Min- <= 32	<= 0	F	T	A	R	L	S	Z	CLR	PC CLDY
Jan/1994	10	6	1	0	4	0	20	30	9	7	0	0	4	7	12	2	5	4 22
Feb/1994	9	4	0	0	2	0	15	26	1	1	0	0	2	3	8	5	5	11 12
Mar/1994	5	3	0	0	1	0	0	22	0	7	2	0	10	5	4	0	6	13 12
Apr/1994	15	12	7	2	1	0	0	6	0	3	6	1	15	14	2	1	10	5 15
May/1994	8	7	3	1	0	0	0	0	0	5	4	1	8	9	0	0	13	10 8
Jun/1994	8	8	1	0	0	12	0	0	0	7	7	0	9	5	0	0	3	16 11
Jul/1994	8	2	1	0	0	6	0	0	0	10	5	0	13	3	0	0	8	13 10
Aug/1994	12	9	4	0	0	3	0	0	0	21	10	1	12	5	0	0	7	10 14
Sep/1994	8	7	2	1	0	1	0	0	0	6	3	0	8	8	0	0	13	7 10
Oct/1994	6	4	3	2	0	0	0	2	0	1	1	0	5	7	0	0	10	8 13
Nov/1994	8	7	4	2	0	0	0	8	0	5	4	1	8	8	1	0	8	8 14
Dec/1994	7	5	2	0	0	0	4	24	0	8	0	0	6	11	3	0	4	5 22
Total	104	74	28	8	8	22	39	118	10	81	42	4	100	85	30	8	92	110 163
Departure from Ave.	-14	+1	+2	-3	-1	+2	-3	-1	+2	+32	+0	+0	-16	+50	-10	-1	-16	-4 +20

L= Drizzle; R= Rain; S= Snow; T= Thunder; A= Hail; Z= Freezing Precipitation; F= Fog.

AVERAGES BASED ON 1961-1990 DATA.

Annual Wind Summary Champaign-Urbana 1994

Mon/year	N	NE	E	SE	S	SW	W	NW	C	Number days max gust >= Ave 30mph Speed	
Jan/1994	56e	67e	57e	136e	63	83e	157e	121e	4	3	7.8e
Feb/1994	90	123	53e	83e	98e	73e	86e	66	0	5	7.6
Mar/1994	102	62	20	75	92	69	143	178	3	7	8.0
Apr/1994	70*	134*	39	57	122	138	90	61*	9	12	9.1*
May/1994	97	135	54	68	67	77	154	81	10	3	5.6
Jun/1994	83e	161e	52	30	107	99	93	82	13	2	4.8e
Jul/1994	73	52	31	120	154	107	128	67	11	0	4.7
Aug/1994	104	86	56	115	122	136	52	41	32	3	4.1
Sep/1994	47	58	58	87	90	123	134	87	36	0	3.8
Oct/1994	37	176	82	85	124	63	102	60*	15	2	5.4
Nov/1994	39	95	63	77	158	107	121	59	1	12	8.90
Dec/1994	130	114	88	128	96	41	35	86	15	2	5.90
Total	928	1,263	653	1,061	1,293	1,116	1,295	989	149	51	6.3
	e*	e*	e	e	e	e	e	e*			e*

Numbers indicate the number of hours each month for each wind direction. Directions are averaged over an hour. Speed is in miles per hour.

Averages based on 1961-1990 data

Remarks: Average speed for the year is 6.3 mph (-0.6 mph), the prevailing direction for the year was from the west. The 30-year annual prevailing direction is south. The peak gust for the year was 51.4 mph from the west on Nov 21st.

e some hourly data estimated

* some hourly data from Bondville

Champaign-Urbana 1993 Annual Summary

The temperature in Champaign-Urbana was near average. However, the precipitation total for 1993 in Champaign-Urbana was record-breaking: 58.54 inches. The old record for precipitation for any 12 consecutive months was 58.59 inches (set from August 1972 through July 1973). The new record is 63.08 inches (November 1992 through October 1993).

Annual precipitation for 1993 was 18.80 inches above the 1961-1990 average. This total broke the old record of 55.65 inches set in 1927 (records start in 1888). The monthly precipitation total in August, 10.02 inches, was a new record for August. Most of that total resulted from a storm on Aug 11-12. During the three-hour period ending at 0230cst on the 12th, 6.30 inches fell. This represented a return frequency of greater than 100 years. In the 24-hour period ending at 0230cst on the 12th, a total of 6.67 inches were recorded, a new record total for a 24-hour period in Champaign-Urbana. August was also the 6th wettest month ever in Champaign-Urbana. September 1993 was the 4th wettest September, and July 1993 was the 6th wettest July in Champaign-Urbana. Growing season (April 1-September 30) precipitation of 38.77 inches (+14.92 inches) was also a new record for that period.

The following are also new records set this year (these records have been kept since 1961): 1993 had the greatest number of days with: (1) drizzle, (2) precipitation equal to or greater than 0.01 inch, (3) precipitation equal to or greater than 0.10 inch, and (4) precipitation equal to or greater than 0.50 inch (refer to the monthly LCD's of June, July, and August for more of these records and related near records). 1993 also had the greatest number of cloudy days, 187 (+44 days).

The winter of 1992-1993, (D '92, J and F '93) was the 10th wettest winter in Champaign-Urbana. The precipitation total was 9.14 inches (+2.32 inches). Snowfall totaled 29.7 inches (+8.6 inches), the 8th greatest snowfall for winter in Champaign-Urbana. Most of the snow came in February (17.9 inches, +10.9 inches). The longest period of consecutive days with snow on the ground was 21 days, from Feb 16th to Mar 13th. The mean temperature for the winter was 28.2F (+1.1F).

No monthly temperature or precipitation records were set in January, March, April, or May. In February, a new minimum temperature, -3F, was recorded on the 28th.

The spring of 1993 (M, A, M) was below average in temperature and in precipitation. The mean temperature for spring was 49.6F (-1.9F). Total precipitation for spring was 9.93 inches (-1.30 inches). The last spring frost occurred on April 22nd.

The summer of 1993 (J, J, and A) was the second wettest summer ever (23.91 inches, +11.34 inches). The mean temperature

for the summer was 73.7F (+0.3F). The daily temperature reached 90F or greater on only 11 days (-6 days). This was the 10th lowest number of 90F or greater days for the summer.

June precipitation was 1.40 inches above average. Flooding occurred in the Champaign-Urbana area due to sustained precipitation rather than any record breaking precipitation.

Fall 1993 (S, O, N) was the 4th wettest fall in Champaign-Urbana (16.31 inches, +7.18 inches). The mean temperature for the fall was 50.4F (-4.0F), the third coldest fall ever in Champaign-Urbana.

September was the 4th wettest September in Champaign-Urbana. It was also the 4th coldest, with a mean temperature of 61.3F (-5.2F). The average monthly maximum temperature was the second coldest (70.7F, -7.0F) and the average monthly minimum temperature was the ninth coldest (51.8F, -3.4F) for the month of September.

October 1993 tied at ninth coldest in Champaign-Urbana (51.0F, -3.5F). The first frost of the fall occurred on Oct 22nd. The growing season, from last spring 32F to first fall 32F was 182 days (-3 days).

In 1993, measurable precipitation fell on 147 days (+29 days). One inch or more fell precipitation fell on 13 days (+2 days). There were 54 days with thunder (+12 days), one day with hail (-3 days), and 7 days with freezing precipitation (-2 days). Annual snowfall was 34.9 inches (+6.5 inches).

There were 78 clear days (-30), 100 partly cloudy days (-14) and 187 cloudy days (+44).

Annual heating degree days (base 65F) totaled 6153 (+214). Cooling degree days (base 65F) totaled 954 (-18). Corn growing degree days (base 50F with a cutoff at 86F) totaled 3458 (-149).

The prevailing wind direction for 1993 was from the south. The 30-year prevailing direction is also from the south. The average wind speed for the year was 6.5 mph (-0.4mph). The peak gust for the year was 47.9 mph from the southwest on Jun 8th.

ANNUAL WEATHER SUMMARY CHAMPAIGN-URBANA 1993

=====MONTHLY VALUES=====								
Mon/Year	---Temperature---			-Precipitation-		-----Degree Days-----		
	Ave Max	Ave Min	Ave Mean	Total (in)	Snow (in)	Heat	Cool	Corn Growing
Jan/1993	34.6	21.0	27.8	4.39	6.7	1,147	0	8
Feb/1993	33.7	17.9	25.8	2.30	17.9	1,091	0	11
Mar/1993	44.1	29.2	36.7	3.04	2.6	873	0	41
Apr/1993	58.5	39.8	49.2	5.06	1.1	469	0	158
May/1993	74.7	51.1	62.9	1.83	0.0	111	51	447
Jun/1993	80.9	60.6	70.8	5.47	0.0	45	226	624
Jul/1993	84.4	67.4	75.9	8.42	0.0	0	344	791
Aug/1993	83.6	65.0	74.3	10.02	0.0	3	299	739
Sep/1993	70.7	51.8	61.3	7.97	0.0	138	32	376
Oct/1993	62.5	39.5	51.0	4.10	0.1	427	2	223
Nov/1993	47.0	30.4	38.7	4.24	3.7	781	0	37
Dec/1993	36.5	24.3	30.4	1.70	2.8	1,068	0	3

Total/Ave	59.3	41.5	50.4	58.54	34.9	6,153	954	3,458
Departure								
From Ave.	-1.8	-0.4	-1.1	+18.80	+6.5	+214	-18	-149
=====								

=====NUMBER OF DAYS WITH=====																		
Month/Year	----Precipitation----					-Temperature-												
	Snow					-Max-		-Min-										
	>= .01	>= .10	>= .50	>= 1.00	>= 1.0	>= 90	<= 32	<= 32	<= 0	F	T	A	R	L	S	Z	CLR	PC
Jan/1993	11	7	3	2	2	0	14	30	0	3	0	0	7	5	12	2	7	7
Feb/1993	8	7	2	0	4	0	16	28	4	8	0	0	4	1	9	1	9	5
Mar/1993	12	7	2	0	1	0	3	17	0	7	0	0	11	14	8	2	6	8
Apr/1993	15	9	5	1	1	0	0	6	0	5	6	0	13	14	2	1	5	7
May/1993	8	5	2	0	0	0	0	0	0	4	3	0	14	4	0	0	7	14
Jun/1993	15	8	5	1	0	2	0	0	0	7	12	0	16	4	0	0	10	8
Jul/1993	17	14	7	2	0	4	0	0	0	8	11	0	17	11	0	0	4	14
Aug/1993	15	10	3	2	0	5	0	0	0	17	11	1	14	7	0	0	3	13
Sep/1993	12	8	6	3	0	0	0	0	0	5	5	0	11	11	0	0	7	7
Oct/1993	8	6	3	1	0	0	0	4	0	5	5	0	5	6	1	0	13	5
Nov/1993	13	9	3	1	1	0	2	18	0	5	1	0	9	12	6	1	5	5
Dec/1993	13	5	0	0	0	0	11	22	1	4	0	0	9	12	11	0	2	7

Total	147	95	41	13	9	11	46	125	5	78	54	1	130	101	49	7	78	100
Departure																		
From Ave.	+29	+22	+15	+2	+0	-9	+4	+6	-3	+29	+12	-3	+14	+66	+9	-2	-30	-14
=====																		

L= Drizzle; R= Rain; S= Snow; T= Thunder; A= Hail; Z= Freezing Precipitation; F= Fog.

AVERAGES BASED ON 1961-1990 DATA.

Annual Wind Summary Champaign-Urbana 1993

Mon/year	N	NE	E	SE	S	SW	W	NW	C	Number days	
										max gust	
										>= 30mph	Ave Speed
Jan/1993	35eM*	141eM*	47eM	55eM*	76eM*	68eM*	158eM*	117eM*	8*	8	8.3eM*
Feb/1993	48M	124M	51M	71M	53M	40M	132M	59M	22M	3	6.2M
Mar/1993	120	130	61	101	52	45	127	106	2	4	7.8
Apr/1993	105	113	49	120	118	77	77	60	1	6	8.7
May/1993	74	70	37	167	99	82	101	110	4	7	6.9
Jun/1993	25	84	70	109	142	133	87	61	9	5	5.8
Jul/1993	60	77	67	108	170	98	85	66	13	2	4.9
Aug/1993	40	74	52	135	132	104	89	75	43	2	3.8
Sep/1993	61	124	52	50	110	49	114	123	37	3	5.1
Oct/1993	70	80*	30	93	111	109	102	106	43	4	5.5*
Nov/1993	33e	54e	52e	79e	173e	119e	103e	73e	34e	7	7.5e
Dec/1993	65	104	47e	82e	129	86e	155e	70	3e	3	7.9e
Total	736 eM*	1,175 eM*	615 eM	1,170 eM*	1,365 eM*	1,010 eM*	1,330 eM*	1,026 eM*	219 eM*	54	6.5 eM*

Numbers indicate the number of hours each month for each wind direction. Directions are averaged over an hour. Speed is in miles per hour.

Averages based on 1961-1990 data

Remarks: Average speed for the year is 6.5 mph (-0.4 mph), the prevailing direction for the year was from the south. The 30-year annual prevailing direction is south. The peak gust for the year was 47.9 mph from the southwest on Jun 8th.

M some hourly data missing

e some hourly data estimated

* some hourly data from Bondville

551.6977306

c.357

1992 ✓

MAP & GEOGRAPHY
UNIVERSITY OF ILLINOIS

From: ILLINOIS STATE WATER SURVEY

Audrey Bryan

Phone: 217-333-8890 (10:00 am - 4:00 pm)

Champaign-Urbana 1992 Annual Summary

The weather in Champaign-Urbana was near average in temperature, and above average in precipitation.

Annual precipitation for 1992 was 45.15 inches, 5.41 inches above the 1961-1990 average. This was the twelfth highest annual total since records began in 1888. The wettest year ever in Champaign-Urbana was in 1927 when 55.64 inches of precipitation were recorded. Several precipitation records were broken in July 1992. The monthly total of 13.82 inches made July not only the wettest July ever in Champaign-Urbana, but also the wettest month ever in Champaign-Urbana. In July, 31% of the annual total precipitation fell, the average being 11% of the annual total. Other precipitation related records for July, since 1961, are as follows: greatest number of days with thunder, rain, measurable precipitation, and cloudy days, and fewest number of clear days.

November also contributed to the high annual total precipitation. The monthly total of 8.03 inches was the second wettest November on record in Champaign-Urbana. Several precipitation related records, since 1961, were equaled or set in November- record number of cloudy days, tied the record number of days with measurable precipitation, and tied for second for the least number of clear days.

The winter of 1991-1992, (D '91, J and F '92) was the 5th warmest winter in Champaign-Urbana. The mean temperature for the winter was 33.8F (+5.7F). The precipitation total for the winter was 4.14 inches (-2.68 inches), and the snowfall total was 6.9 inches (-14.2 inches). Most of the snowfall occurred in January, however there was never more than 3 inches of snow on the ground at any time. The longest period of consecutive days with snow on the ground was 14 days in January, 6 of those days had only trace amounts on the ground.

All three months were very warm and very dry. Two record daily maximum temperatures were equaled in December 1991. February 1992 had the 7th warmest mean monthly maximum and mean monthly minimum temperatures, and the 6th warmest mean monthly temperature.

The spring of 1992 (M, A, M) was near average in temperature, but dry. The mean temperature for the spring was 51.3F (-0.2F) and the precipitation total was 8.39 inches (-2.84 inches). March saw three new daily maximum temperatures, April had one new record daily minimum temperature. Even though April ended with a less than average total precipitation, it tied the record for April, beginning 1961, for the greatest number of days with measurable precipitation.

The summer of 1992 (J, J, A) was cool and very wet. The mean temperature of 70.1F (-3.3F) was the 4th coolest summer on record for Champaign-Urbana. Total precipitation for the summer of 18.68 inches (+6.11 inches) was also the 4th wettest summer. Cooling degree days totaled 527 for the three months (-230),

which was the 4th lowest total. The number of days with temperature of 90F or greater was only 3 (-14 days), the third lowest total.

The first day of summer, June 20, 1992, had the lowest daily maximum temperature ever for that date. Four new daily record minimum temperatures were set in June.

July ended the eight-month streak of months with below average total precipitation. July's total precipitation of 13.82 inches was 74% of the summer total.

August had the 3rd lowest average monthly maximum temperature, the 8th lowest average monthly minimum temperature, and the 5th lowest average monthly mean temperature.

Fall 1992 (S, O, N) was near average in temperature, but above average in precipitation. The mean temperature was 53.1F (-1.3F). The precipitation total was 13.25 inches (+4.12 inches) and was the 8th wettest fall ever in Champaign-Urbana. No temperature or precipitation record were set in September or October, but November was the second wettest November ever in Champaign-Urbana.

Annual records, from data starting in 1961, are as follows: fewest number of days with temperatures of 90F or greater and fewest number of days with hail, highest number of days with drizzle, of partly cloudy days, and cloudy days.

The annual mean temperature was 51.9F (+0.4F). The mean maximum temperature was 61.3F (+0.2F) and the mean minimum temperature was 42.2F (+0.5F). The warmest day was 95F on June 17th, and the coldest day was -6F on January 16th. There were 4 days with a minimum temperature of 0F or lower (-4 days). There were 19 days (-23 days) with a maximum temperature of 32F or lower, and there were 112 days (-7 days) with a minimum temperature of 32F or lower. The last frost of spring was April 28th and the first frost of fall was Oct 17th, making the growing season 171 days (-6 days).

Annual precipitation was 45.15 inches (+5.41 inches). Measurable precipitation fell on 136 days (+18 days). One inch or more precipitation fell on 10 days (-1 day). There were 41 days with thinder (-1 day). No days with hail were observed (-4 days), and 5 days had freezing precipitation (-4 days).

There were 91 clear days (-17), 114 partly cloudy days (+0). and 161 cloudy days (+17).

Annual heating degree days (base 65F) totaled 5402 (-537). Cooling degree days (base 65F) totaled 686 (-286) and corn growing degree days (base of 50F with a cutoff at 86F) totaled 3381 (-226).

The prevailing wind direction for 1992 was south-southeast (south is the 1961-1990 annual prevailing direction) and the average speed was 5.6 mph (-1.3 mph). The peak gust this year was 48.4 mph from the south on December 15, 1992.

Annual Wind Summary Champaign-Urbana 1992

=====												
Mon/year	N	NE	E	SE	S	SW	W	NW	C	Number days		
										max gust		
										>= 30mph	Ave Speed	Peak Gust

Jan/1992	91	18	31	101	121	102	138	140	0	3	6.3M	33.4 NW
Feb/1992	69	92	71	78	71	66	123	122	4	1	5.8	31.0 W
Mar/1992	106	91	26	116	102	106	116	75	6	1	6.6	32.0 N
Apr/1992	114	65	62	106	115	83	68	102	3	0	6.0	27.9 S
May/1992	114	208	96	77	94	57	39	53	6	1	4.9	32.0 S
Jun/1992	110	162	101	109	58	51	63	39	27	1	3.8	42.8 S
Jul/1992	85e	72e	39e	110e	76e	121e	163e	50e	28e	3	4.1	35.8 W
Aug/1992	80	171	50	74	92	86	91	72	28	0	4.0	29.4 W
Sep/1992	67	63	71*	130*	168*	78*	58*	69*	16	2	4.9	40.1 W
Oct/1992	64	109	61	99	100	145	74	78	14	3	5.3	44.5 S
Nov/1992	27	93	60	80	115	108	154	83	0	7	7.5	42.6 N
Dec/1992	29	5	40*	164*	132	84	100	188	0	5	7.8	48.4 S

Tot/Ave	956	1,149	708	1,244	1,244	1,087	1,187	1,071	132	27	5.6	
Dep. from ave.											-1.3	
=====												

Numbers indicate the number of hours each month for each wind direction. Directions are averaged over an hour. Speed is in miles per hour.
Averages based on 1961-1990 data

Remarks: Average speed for the year is 5.6 mph (-1.3 mph), the prevailing direction for the year was from the south-southeast. The 30-year annual prevailing direction is south. The peak gust for the year was 48.4 mph from the south on Dec.15th.

M Missing data- two hours of data missing in January

e Estimated- this value includes some estimated data.

* Some data from Bondville used in conjunction with Champaign-Urbana data

ANNUAL WEATHER SUMMARY CHAMPAIGN-URBANA 1992

=====MONTHLY VALUES=====								
Mon/Year	---Temperature---			-Precipitation-		-----Degree Days-----		
	Ave Max	Ave Min	Ave Mean	Total (in)	Snow (in)	Heat	Cool	Corn Growing
Jan/1992	37.1	24.2	30.7	1.03	4.7	1,060	0	0
Feb/1992	45.0	29.2	37.1	1.35	2.2	799	0	29
Mar/1992	51.9	32.8	42.4	2.00	1.9	696	0	103
Apr/1992	61.0	39.8	50.4	3.30	0.2	431	0	192
May/1992	73.0	49.0	61.0	3.09	0.0	174	58	410
Jun/1992	80.5	57.3	68.9	2.47	0.0	26	153	578
Jul/1992	81.1	63.8	72.5	13.82	0.0	0	238	696
Aug/1992	79.3	58.2	68.8	2.39	0.0	9	136	583
Sep/1992	75.9	53.3	64.6	3.14	0.0	98	93	474
Oct/1992	66.3	42.1	54.2	2.08	0.0	336	8	271
Nov/1992	46.2	34.9	40.6	8.03	0.3	724	0	38
Dec/1992	37.9	24.2	31.1	2.45	5.1	1,049	0	7
Total/Ave	61.3	42.4	51.9	45.15	14.4	5,402	686	3,381
Departure								
From Ave.	+0.2	+0.5	+0.4	+5.41	-14.1	-537	-286	-226

=====NUMBER OF DAYS WITH=====																		
Month/Year	----Precipitation----					-Temperature-												
	Snow					-Max-		-Min-										
	>= .01	>= .10	>= .50	>= 1.00	>= 1.0	>= 90	<= 32	<= 32	<= 0	L	R	S	T	A	Z	F	CLR	PC
Jan/1992	10	4	0	0	2	0	7	25	4	4	5	8	0	0	0	0	5	10
Feb/1992	8	5	1	0	1	0	3	21	0	3	7	5	1	0	2	0	3	15
Mar/1992	18	5	1	0	0	0	2	17	0	5	10	7	2	0	1	6	7	6
Apr/1992	18	10	1	0	0	0	0	6	0	14	17	1	6	0	0	10	5	6
May/1992	10	5	2	1	0	0	0	0	0	5	10	0	3	0	0	6	15	8
Jun/1992	5	4	2	1	0	1	0	0	0	3	5	0	4	0	0	5	7	16
Jul/1992	18	15	6	4	0	1	0	0	0	13	18	0	14	0	0	12	1	11
Aug/1992	8	5	2	1	0	1	0	0	0	1	7	0	2	0	0	11	10	18
Sep/1992	8	6	3	0	0	0	0	0	0	4	8	0	5	0	0	11	14	9
Oct/1992	6	4	1	1	0	0	0	3	0	6	7	0	3	0	0	6	15	8
Nov/1992	18	11	5	2	0	0	1	14	0	17	14	8	1	0	0	4	1	2
Dec/1992	9	5	2	0	1	0	6	26	0	5	5	9	0	0	2	8	8	5
Total	136	79	26	10	4	3	19	112	4	80	113	38	41	0	5	79	91	114
Departure																		
From Ave.	+18	+6	+0	-1	-5	-17	-23	-7	-4	+45	-3	-2	-1	-4	-4	+30	-17	+0

L= Drizzle; R= Rain; S= Snow; T= Thunder; A= Hail; Z= Freezing Precipitation; F= Fog.

AVERAGES BASED ON 1961-1990 DATA.

Annual Weather Summary Champaign-Urbana 1991

NUMBER OF DAYS WITH:

Mon/Year	-----Precipitation-----				-----Temperature-----					-----Weather Types-----							--Sky Conditions---		
	>=.01	>=.10	>=.50	>=1.00	Snow >=1.0	---Max--- >=90	<=32	---Min--- <=32	<=0	L	R	S	T	A	Z	F	CLR	PC	CLDY
Jan/1991	12	5	1	0	1	0	21	30	1	3	3	10	0	0	4	3	6	6	19
Feb/1991	6	1	0	0	0	0	5	23	0	6	1	4	1	0	0	7	4	9	15
Mar/1991	9	8	4	0	0	0	1	17	0	9	10	4	7	0	0	3	7	6	18
Apr/1991	10	8	1	0	0	0	0	2	0	9	9	0	4	0	0	6	7	7	16
May/1991	15	10	6	4	0	4	0	0	0	13	14	0	8	1	0	11	1	15	15
Jun/1991	4	2	1	0	0	11	0	0	0	4	2	0	2	0	0	7	15	7	8
Jul/1991	6	4	2	1	0	12	0	0	0	5	7	0	3	0	0	7	12	14	5
Aug/1991	7	3	1	1	0	11	0	0	0	6	9	0	4	0	0	11	14	8	9
Sep/1991	9	5	1	0	0	8	0	0	0	8	9	0	4	0	0	2	9	11	10
Oct/1991	13	9	3	1	0	0	0	4	0	9	13	0	5	0	0	7	13	6	12
Nov/1991	14	8	1	0	2	0	7	16	0	4	9	10	2	0	0	3	8	5	17
Dec/1991	5	5	1	0	0	0	5	24	0	1	5	4	1	0	1	5	13	2	16
Sum	110	68	22	7	3	46	39	116	1	77	91	32	41	1	5	72	109	96	160
Dep From																			
Average	-8	-5	-4	-4	-6	+20	-3	-3	-7	+42	-25	-8	-1	-3	-4	+23	+1	-18	+17

L=Drizzle; R=Rain; S=Snow; T=Thunder; A=Hail; Z=Freezing Precip; F=Fog. Averages based on 1961-1990 data.

MONTHLY TEMPERATURE AND PRECIPITATION

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Average Maximum	29.8	41.4	52.5	67.2	79.7	87.1	87.7	86.7	80.2	67.1	45.7	40.8	63.8 (+2.7)
Average Minimum	17.1	25.6	33.2	44.8	59.2	64.4	64.6	63.3	53.8	45.7	29.6	26.2	44.0 (+2.1)
Average Mean	23.5	33.5	42.9	56.0	69.5	75.8	76.2	75.0	67.0	56.4	37.7	33.5	53.9 (+2.4)
Tot. Precip	1.65	0.33	4.29	2.63	9.32	0.66	2.59	2.27	2.11	4.43	2.82	1.76	34.86 (-4.92)

Remarks: There were six new temperature records set this year: One new daily high on May 28th, and five new daily lows in November on the 4th, 5th, 7th, 8th, and 9th. The low on the 9th, 7F, broke the old record of 19 set in 1896 by 12 degrees. For further information, see Champaign-Urbana monthly Local Climatological Data Summaries, available from the Illinois State Water Survey.

Annual Wind Summary Champaign-Urbana 1991

=====										
	Number days									
	max gust									
	>= Ave									
Mon/year	N	NE	E	SE	S	SW	W	NW	C	30mph Speed

Jan/1991	104	53	73	42	88	114	121	137	3	2 6.50
Feb/1991	106	35	27	50	118	104	100	132	0	2 6.80
Mar/1991	74	70	75	95	152	77	81	115	5	5 8.40
Apr/1991	60	72	103	110	124	129	61	61	0	1 6.50
May/1991	8	90	74	130	192	140	97	8	5	2 4.90
Jun/1991	37	220	82	63	127	99	68	11	12	1 3.90
Jul/1991	96	80	46	114	63	175	111	50	9	1 3.80
Aug/1991	98	160	86	121	71	77	82	33	17	0 3.30
Sep/1991	65	118	60	71	71	118	122	85	10	0 3.90
Oct/1991	88	65	26	77	206	111	120	47	4	0 5.60
Nov/1991	105	40	30	70	169	85	166	40	15	3 7.50
Dec/1991	99	55	18	81	104	109	76	78	28	1 5.90

sum	940	1,058	700	1,024	1,485	1,338	1,205	797	108	18
mean	5.6 (-1.3)									
=====										

Numbers indicate the number of hours each month for each wind direction. Directions are averaged over an hour. Speed is in miles per hour.

Averages based on 1961-1990 data

Remarks: The winds averaged 5.6 mph from the south for the year 1991. The 30-year prevailing direction is south. The peak gust for the year was also from the south at 44.9 mph on March 27th.

551.6977366

MAX

C357

1990

From: STATE WATER SURVEY DIVISION

Audrey Bryan

Phone: 217-333-8890 (10:00 am - 4:00 pm)

Champaign-Urbana 1990 Annual Summary

The weather in Champaign-Urbana was near average in temperature, and very much above average in precipitation.

Annual precipitation for 1990 was 53.59 inches, 16.55 inches above the 1951-1980 average. This was the second wettest year here since records began in 1888. The wettest year ever in Champaign-Urbana was in 1927 when 55.64 inches of precipitation were recorded. The annual average for Champaign-Urbana, 37.04 inches, was exceeded by late August. Seven months out of the year (Feb, Mar, May, Jun, Oct, Nov, Dec) had total precipitation over average. Five of those months had totals that put them into the records for top ten wettest months. There were also several storm events of note. February's total of 6.05 inches made it the wettest February ever (the previous record was 5.80 inches in 1905). The glaze storm of Valentine's Day was at least the second worst ice storm in the last 30 years in Champaign-Urbana in terms of the degree of ice damage, and the length of time households were without power. February also established a new record maximum amount of precipitation in 24 hours, when 2.30 inches were recorded on the 22nd. The old record was 1.78 inches in 1939.

Total precipitation of 8.64 inches for May 1990 made it the second wettest May in Champaign-Urbana (the record is 11.20 inches in 1943). During four hours and 45 minutes during the night of 15/16 May, 3.13 inches of rain fell, equivalent to a 50-year event. During an 18 hour period on 28/29 December, 2.49 inches fell, a 40-year event. However, when the snowmelt from the 8 inches already on the ground was added to the rain that fell, the event was then about a 100-year event. Champaign-Urbana experienced another heavy precipitation event on 30 July 1987 when 4.43 inches fell in four hours, equalling the 100-year event. Champaign-Urbana has experienced 3 extreme rain storms in the last three years, each of which exhibited a recurrence frequency of at least 50 years!

June 1990 monthly precipitation total of 8.33 inches made this the 5th wettest June ever (record wettest is 10.98 in 1902). October's total of 6.90 inches made October 1990 also the fifth wettest October (record is 9.01 inches in 1941). Total precipitation in December of 6.45 inches made this the second wettest December (record is 6.63 inches in 1967). December's total snowfall of 14.0 inches was 7th highest for December (record is 20.0 inches in 1983).

There were not many temperature records set in 1990. In January, the monthly average maximum temperature of 45.1F was the second highest for January (record is 45.8F, 1933). The monthly average minimum temperature of 26.6F was the fifth highest (record is 29.6F, 1933) and the average monthly mean temperature of 35.9F is the second highest for January (record is 37.7F, 1933). November 1990 also had average monthly temperatures in the top ten. The average monthly maximum temperature of 57.5F was the third highest for November (record highest is 60.2F

set in 1909). The average monthly minimum temperature of 36.0F is the eighth highest (record is 42.2F, 1931) and the average monthly mean temperature of 46.8F was the fifth highest for November (record is 50.2F, 1931).

March 1990 saw three new record daily maximum temperatures. The 10th with a high of 73F (old record 72F, 1953), the 12th with 78F (old record 68F, 1972), and the 13th with 78F (old record 76F, 1933). The high temperature on August 28th, (97F), tied the previous record high set in 1953.

Some occurrences of note but not of record are as follows. The last frost in spring this past year was on April 18th, the average date being April 21. The first frost in the fall was on October 11, the average date is October 20th. The growing season from April 19th to October 10th lasted 175 days (-6 days). The growing season precipitation, from April through September was 26.71 inches (+4.31 inches). On July 24, a cold air funnel cloud was sighted in Champaign-Urbana. No wind, rain, or thunder was associated with it. It was observed for approximately one hour and caused no damage.

The annual mean temperature for 1990 was 53.3F (+1.3F). The mean maximum was 63.4F (+1.9F) and the mean minimum was 42.9F (+0.6F). The warmest day of 1990 occurred on August 28th and September 6th (97F) and the coldest day occurred on December 24th (-8F). There were 3 days with minimum temperature of 0F or below (-3 days). The highest daily average temperature was 84F (June 17th) and the lowest daily average was 2F (December 24th). The total number of days with a maximum temperature of 32F or lower was 15 (-23 days). There were 118 days with a minimum temperature of 32F or lower (+0 days).

Measurable precipitation fell on 119 days (+3 days). One inch or more precipitation fell on 17 days (+8 days).

There were 40 days with thunder (-5 days). Although spring is the season which typically exhibits the greatest thunderstorm frequency in Illinois, thunder was not recorded on any day in April this past year. Hail was observed on 2 days (-2 days) and 8 days had freezing precipitation (-1 day).

There were 121 clear days (+16 days), 82 partly cloudy days (-42 days), and 162 cloudy days (+26 days).

Annual heating degree days totaled 5149 (-509). Cooling degree days totaled 940 (-79).

The prevailing wind direction for 1990 was south (southwest is the 1951-1980 prevailing direction) and the average speed was 6.1 mph (-0.9 mph). The peak gust of 58.9 mph came from the south on March 15th.

CLIMATOLOGICAL DATA
Champaign-Urbana, Illinois 1990

Temperature (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL SUMMARY
Highest	64	61	78	86	79	94	96	97	97	85	75	60	97
Lowest	14	10	18	21	37	43	55	51	36	28	22	4	4
Mean Maximum	45.1	42.9	54.0	61.4	69.0	82.5	83.2	82.6	78.8	65.2	57.5	38.3	63.4
Mean Minimum	26.6	26.5	34.6	39.0	49.6	61.7	63.2	61.2	55.8	39.9	36.0	20.6	42.9
Monthly Mean	35.9	34.7	44.3	50.2	59.3	72.1	73.2	71.9	67.3	52.6	46.8	29.5	53.2
Departure from Average*	+11.2	+5.4	+5.2	-2.1	-3.5	+0.2	-2.0	-1.3	+0.6	-2.3	+5.6	-0.7	+1.3
Number of Days Maximum ≥ 90°	0	0	0	0	0	6	4	5	4	0	0	0	19
Maximum ≤ 32°	3	2	1	0	0	0	0	0	0	0	0	9	15
Minimum ≤ 32°	27	21	17	9	0	0	0	0	0	7	12	25	118
Minimum ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	3	3
Heating Degree Days	896	843	644	463	176	14	3	2	83	391	540	1094	5149
Cooling Degree Days	0	0	11	26	9	233	265	223	160	13	0	0	940
Precipitation (Inches) Total (14 Equal Int.)	1.01	6.05	3.47	2.14	8.64	8.33	3.63	2.48	1.49	6.90	3.00	6.45	53.59
Departure from Average*	-0.96	+4.17	+0.15	-1.70	+5.05	+4.41	-0.72	-1.18	-1.53	+4.39	+0.52	+3.95	+16.55
Maximum in 24 hours	0.33	2.30	1.81	1.12	2.80	2.39	1.19	0.76	0.46	1.57	1.54	2.41	2.80
Snowfall (unmelted)	0.1	0.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	14.0	15.7
Departure from average*	-7.2	-5.6	-3.9	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	-2.9	+9.4	-10.7
Number of Days With 0.01 Inch or More	9	11	11	10	15	14	9	6	4	10	7	13	119
0.50 Inch or More	0	3	2	1	6	6	2	3	0	5	2	4	34
1.00 Inch or More	0	3	1	1	2	3	1	0	0	4	1	1	17
Thunder	1	1	3	0	7	11	6	2	4	3	1	1	40
Hail	0	0	1	0	0	1	0	0	0	0	0	0	2
Freezing Precipitation	0	3	0	0	0	0	0	0	0	0	0	5	8
Snow	2	6	4	3	0	0	0	0	0	0	2	9	26
Snowfall 1.0 Inch	0	0	0	0	0	0	0	0	0	0	0	4	4
Snowfall Trace or More	4	0	2	0	0	0	0	0	0	0	0	11	17
Average Sky Condition (% of Days)													
Clear	11	9	7	8	9	9	14	8	12	17	9	8	121
Partly Cloudy	4	3	3	11	4	11	8	11	5	4	11	7	82
Cloudy	16	16	21	11	18	10	9	12	13	10	10	16	162
Wind Prevailing Direction	S	S	S	S	S	S	N/E	S/E	N/W	S	S	W	S
Average Speed (mph)	8.3	8.3	9.0	7.8	7.6	6.1	4.1	2.8	3.1	4.2	5.1	6.9	6.11
Peak Gust (mph)	44.3	42.9	58.9	34.7	45.1	36.9	28.5	20.9	25.5	32.3	30.1	44.9	58.9

Annual averages and totals are correct. Some errors were found in temperature, precipitation and wind data in monthly climatological data, February through June. If you need the corrected versions of those :CDD's, please call 313-40590 between 10:00 a.m. and 4:00 p.m. Average computed from 1951-1990. Urbana data or previous incorrect.

551.6977366

MAX

C357

1989

From: STATE WATER SURVEY DIVISION

Audrey Bryan

Phone: 217-333-8890 (10:00 am - 4:00 pm)

✓ Champaign-Urbana 1989 Annual Summary

The weather in Champaign-Urbana in 1989 was slightly below average in both temperature and precipitation.

Annual precipitation for 1989 was 34.97 inches (-2.07 inches from the 1951-1980 average). The only months where total monthly precipitation was above the average for that month were April, May, June, August, and September. The only records for precipitation in 1989 concerned snow. In January, the total snowfall of 1.0 inch tied for the 8th lowest snowfall for January. The record lowest amount for January is a trace, recorded in 1944. The other snowfall record occurred in October when 1.0 inch of snow was recorded on the 19th. This is the earliest date of a 1.0 inch snowfall. The old record earliest date was October 20, 1916. The average date of any measurable snowfall amount is November 26, and the average date of a 1.0 inch snowfall is December 9. Two other snowfall occurrences of note but not of record were as follows: In March, a snowfall of 6.9 inches occurred on the 6th, closing many schools, offices, and businesses. There also was a trace of snow recorded on May 6th. This is the first time since 1960 that snowfall has been recorded in May. Total snowfall for 1989 was 31.3 inches (+4.9 inches)

Several temperature records were tied or broken in 1989. On January 31st, a new record maximum temperature was set when 66F was recorded. The old record for that date was 59F, set in 1917. On May 7th, a new record minimum temperature was set with a reading of 29F. The old record was 30F, set in 1891. August 7th also had a new record minimum temperature of 49F. The old record was 51F, set in 1889, one hundred years ago. On October 19th, a new record lowest maximum temperature was set when 36F was recorded. The old record was 41F, set in 1930. In December, four days in a row had new record low temperatures. On the 20th, the low was -18F. The old record was -12F, set in 1901. The 21st had a low of -16F, the old record was -9F, set in 1963. The 22nd had a low of -21F. The old record for that date was -12F, set in 1983. The low of -21F is also a new record low for the month of December. The old record low for the month was -20F set in 1924 on the 28th and again on the 24th in 1983. The 23rd of December also had a new record low temperature with a -18F reading. The old record was -14F, set in 1983. Two other records also occurred on the 21st and 22nd, new record low maximum temperatures of -4F were set on both days. The previous record lowest maximum temperatures for those days were set in 1960, when both days recorded a high temperature of 8F. Again, on December 22, 1989, the daily mean temperature of -13F made that day the third coldest ever in Champaign-Urbana. The coldest day ever, according to daily mean temperature was on February 9, 1899, and again on December 24, 1983 when a mean temperature of -16F was recorded.

Some other temperature records or near records are as follows. January had the 4th highest average monthly maximum temperature for January with 42.2F (+9.9F). The record highest is 45.8F, set in 1933. The average monthly minimum temperature of 26.2F (+9.2F) tied for the 7th highest for January. The highest is

29.6F, set in 1933. January also had the 4th highest average monthly mean temperature of 34.2F (+9.5F). The highest for January is 37.7F, set in 1933. February had the 6th lowest average monthly maximum temperature with 28.7F (-8.6F). The record lowest is 25.3F, set in 1979. And, December had the 2nd lowest average monthly maximum temperature with 26.3F (-11.3F). The record for December is 22.8F, set in 1983. December 1989 had the lowest average monthly minimum temperature with 7.9F (-15.4F). The old record was 9.7F, set in 1983. December also had the 2nd lowest average monthly mean temperature with 17.1F (-13.4F). The record is 16.3F, set in 1933. December 1989 also had 11 days with temperature below 0F. This is a new record, the old record was 9 in 1983.

Some occurrences of note but not of record are as follows. The last frost in spring this past year was on May 7th. The average date of last frost is April 21. The first frost in the fall was October 9th. The average date of first frost is October 20th. The growing season from May 8th until October 9th this year lasted for 155 days (-26 days). The growing season precipitation, from April through September, was 27.15 inches (+4.75 inches). On September 8th, tornadoes and/or funnel clouds were sighted in Champaign county. In December there were 124.7 hours of temperature below 0F, with the longest consecutive period lasting 56.5 hours. This compares to 1983, when there were 152.25 hours of temperature below 0F, with the longest consecutive period lasting 100 hours. December 22nd also had an extremely high sealevel barometric pressure reading of 30.94 inches.

The annual mean temperature for 1989 was 50.2F (-1.7F). The mean maximum was 60.2F (-1.3F) and the mean minimum was 40.3F (-2.0F). The warmest day of 1989 occurred on July 8th and 10th (95F) and the coldest day occurred on December 22nd (-21F). There were 14 days with minimum temperature of 0F or below (+8). The highest daily average was 85F on 10 July. The lowest daily average was -13 on 22 December. The total number of days with a maximum temperature of 32F or lower was 49 (+11). There were 134 days with a minimum temperature of 32F or lower (+16).

Measurable precipitation occurred on 104 days (-12). One inch or more precipitation fell on 8 days (-2).

There were 36 days with thunder (-9). Hail was observed on 1 day (-3) and 5 days had freezing precipitation (-4).

There were 113 clear days (+8), 103 partly cloudy days (-21), and 149 cloudy days (+13).

Annual heating degree days totaled 6228 (+470). Cooling degree days totaled 968 (-151).

The prevailing wind direction for 1989 was south (southwest is the 30-year prevailing direction) and the average speed was 5.6 mph (-1.4mph). The peak gust of 45.8 mph came from the west on September 8th.

CLIMATOLOGICAL DATA
Champaign-Urbana, Illinois 1989

ILLINOIS STATE WATER SURVEY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL SUMMARY
Temperature (°F)													
Highest	66	50	77	85	90	94	95	92	88	86	73	58	95
Lowest	12	-9	12	23	29	52	54	48	38	31	14	-21	-21
Mean Maximum	42.2	28.7	50.1	62.2	69.0	82.4	84.9	83.7	74.5	67.6	50.3	26.3	60.2
Mean Minimum	26.2	14.6	30.7	40.3	48.3	60.5	65.5	62.9	53.2	42.7	30.2	7.9	40.3
Monthly Mean	34.2	21.7	40.4	51.3	58.7	71.5	75.2	73.3	63.9	55.2	40.3	17.1	50.2
Departure from Average*	+9.5	-7.6	+1.3	-1.0	-4.1	-0.4	+0.0	+0.1	-3.0	-0.1	-1.2	-13.4	-1.7
Number of Days													
Maximum ≥90°	0	0	0	0	1	4	7	3	0	0	0	0	15
Maximum ≤32°	6	18	4	0	0	0	0	0	0	0	2	19	49
Minimum ≤32°	25	28	18	9	1	0	0	0	0	4	18	31	134
Minimum ≤ 0°	0	3	0	0	0	0	0	0	0	0	0	11	14
Heating Degree Days	947	1207	757	427	242	8	0	4	104	316	735	1481	6228
Cooling Degree Days	0	0	0	21	52	210	323	268	75	19	0	0	968
Precipitation (Inches)													
Total (liquid equivalent)	1.23	1.29	1.98	5.73	5.80	5.02	1.78	4.27	4.55	1.21	1.42	0.69	34.97
Departure from Average*	-0.74	-0.59	-1.34	+1.89	+2.21	+1.10	-2.57	+0.61	+1.53	-1.30	-1.06	-1.81	-2.07
Maximum in 24 hours	0.38	0.33	0.58	1.82	2.32	2.06	0.70	0.91	2.01	0.38	0.81	0.24	2.32
Snowfall (unmelted)	1.0	10.4	6.9	2.0	T	0	0	0	0	3.3	T	7.7	31.3
Departure from Average*	-6.2	+4.3	+1.9	+1.4	0	0	0	0	0	+3.3	-2.9	+3.1	+4.9
Number of Days With													
0.01 Inch or More	8	10	7	15	11	9	5	10	4	9	5	11	104
0.50 Inch or More	0	0	2	3	3	3	1	5	3	0	1	0	21
1.00 Inch or More	0	0	0	2	2	2	0	0	2	0	0	0	8
Thunder	1	0	4	5	2	3	5	9	2	0	5	0	36
Hail	0	0	0	1	0	0	0	0	0	0	0	0	1
Freezing Precip	2	2	0	0	0	0	0	0	0	0	0	1	5
Snow	3	12	5	3	1	0	0	0	0	3	6	15	48
Snowfall 1.0 Inch	1	4	1	1	0	0	0	0	0	1	0	4	12
Snowcover Trace or More	8	26	8	0	0	0	0	0	0	2	0	21	65
Average Sky Condition (No. of Days)													
Clear	12	9	10	10	6	8	9	6	12	15	9	7	113
Partly Cloudy	6	6	7	11	11	14	9	9	4	8	11	7	103
Cloudy	13	13	14	9	14	8	13	16	14	8	10	17	149
Wind													
Prevailing Direction	S	W	N	S	SE	NW	NE	NE	NE	S	S	W	S
Average Speed (mph)	7.5	7.2	7.0	6.5	5.9	3.6	3.1	2.9	3.6	4.9	7.6	7.1	5.6
Peak Gust (mph)	39	29	36	43.2	28.2	31.0	20.4	26.7	45.8	29.5	34.1	45.0	45.8

*Average computed from 1951-1980, Urbana data, or portions thereof.

CLIMATOLOGICAL DATA
Champaign-Urbana, Illinois 1989

ILLINOIS STATE WATER SURVEY

ANNUAL

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	SUMMARY
Temperature (°F)													
Highest	66	50	77	85	90	94	95	92	88	86	73	58	95
Lowest	12	-9	12	23	29	52	54	48	38	31	14	-21	-21
Mean Maximum	42.2	28.7	50.1	62.2	69.0	82.4	84.9	83.7	74.5	67.6	50.3	26.3	60.2
Mean Minimum	26.2	14.6	30.7	40.3	48.3	60.5	65.5	62.9	53.2	42.7	30.2	7.9	40.3
Monthly Mean	34.2	21.7	40.4	51.3	58.7	71.5	75.2	73.3	63.9	55.2	40.3	17.1	50.2
Departure from Average*	+9.5	-7.6	+1.3	-1.0	-4.1	-0.4	+0.0	+0.1	-3.0	-0.1	-1.2	-13.4	-1.7
Number of Days													
Maximum ≥90°	0	0	0	0	1	4	7	3	0	0	0	0	15
Maximum ≤32°	6	18	4	0	0	0	0	0	0	0	2	19	49
Minimum ≤32°	25	28	18	9	1	0	0	0	0	4	18	31	134
Minimum ≤ 0°	0	3	0	0	0	0	0	0	0	0	0	11	14
Heating Degree Days	947	1207	757	427	242	8	0	4	104	316	735	1481	6228
Cooling Degree Days	0	0	0	21	52	210	323	268	75	19	0	0	968
Precipitation (Inches)													
Total (liquid equivalent)	1.23	1.29	1.98	5.73	5.80	5.02	1.78	4.27	4.55	1.21	1.42	0.69	34.97
Departure from Average*	-0.74	-0.59	-1.34	+1.89	+2.21	+1.10	-2.57	+0.61	+1.53	-1.30	-1.06	-1.81	-2.07
Maximum in 24 hours	0.38	0.33	0.58	1.82	2.32	2.06	0.70	0.91	2.01	0.38	0.81	0.24	2.32
Snowfall (unmelted)	1.0	10.4	6.9	2.0	T	0	0	0	0	3.3	T	7.7	31.3
Departure from Average*	-6.2	+4.3	+1.9	+1.4	0	0	0	0	0	+3.3	-2.9	+3.1	+4.9
Number of Days With													
0.01 Inch or More	8	10	7	15	11	9	5	10	4	9	5	11	104
0.50 Inch or More	0	0	2	3	3	3	1	5	3	0	1	0	21
1.00 Inch or More	0	0	0	2	2	2	0	0	2	0	0	0	8
Thunder	1	0	4	5	2	3	5	9	2	0	5	0	36
Hail	0	0	0	1	0	0	0	0	0	0	0	0	1
Freezing Precip	2	2	0	0	0	0	0	0	0	0	0	1	5
Snow	3	12	5	3	1	0	0	0	0	3	6	15	48
Snowfall 1.0 Inch	1	4	1	1	0	0	0	0	0	1	0	4	12
Snowcover Trace or More	8	26	8	0	0	0	0	0	0	2	0	21	65
Average Sky Condition (No. of Days)													
Clear	12	9	10	10	6	8	9	6	12	15	9	7	113
Partly Cloudy	6	6	7	11	11	14	9	9	4	8	11	7	103
Cloudy	13	13	14	9	14	8	13	16	14	8	10	17	149
Wind													
Prevailing Direction	S	W	N	S	SE	NW	NE	NE	NE	S	S	W	S
Average Speed (mph)	7.5	7.2	7.0	6.5	5.9	3.6	3.1	2.9	3.6	4.9	7.6	7.1	5.6
Peak Gust (mph)	39	29	36	43.2	28.2	31.0	20.4	26.7	45.8	29.5	34.1	45.0	45.8

*Average computed from 1951-1980, Urbana data, or portions thereof.

CLIMATOLOGICAL DATA
Champaign-Urbana, Illinois 1988

ILLINOIS STATE WATER SURVEY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL SUMMARY
Temperature (°F)													
Highest	57	61	75	84	93	103	101	102	92	78	66	64	103
Lowest	-8	-10	14	29	39	45	53	44	40	22	23	5	-10
Mean Maximum	32.7	33.0	49.9	64.0	80.4	88.5	90.7	89.5	80.3	59.3	51.1	40.0	63.3
Mean Minimum	14.7	15.1	29.0	39.0	50.4	58.2	65.5	64.4	54.4	37.0	33.0	20.7	40.1
Monthly Mean	23.8	24.1	39.5	51.5	65.4	73.4	78.1	77.0	67.4	48.2	42.1	30.4	51.7
Departure from Average*	-0.9	-5.2	+0.4	-0.8	+2.6	+1.5	+2.9	+3.8	+0.5	-7.1	+0.6	-0.1	-0.2
Number of Days													
Maximum ≥90°	0	0	0	0	4	16	18	16	2	0	0	0	56
Maximum ≤32°	15	16	4	0	0	0	0	0	0	0	0	10	45
Minimum ≤32°	28	29	24	3	0	0	0	0	0	12	19	28	143
Minimum ≤ 0°	5	4	0	0	0	0	0	0	0	0	0	0	9
Heating Degree Days	1272	1181	786	403	70	7	0	5	38	516	680	1065	6023
Cooling Degree Days	0	0	0	3	90	263	413	385	117	0	0	0	1271
Precipitation (Inches)													
Total (liquid equivalent)	2.17	1.28	2.51	1.50	1.55	0.32	3.64	1.28	3.33	3.18	5.93	2.93	29.62
Departure from Average*	+0.20	-0.60	-0.81	-2.34	-2.04	-3.60	-0.71	-2.38	+0.31	+0.67	+3.45	+0.43	-7.42
Maximum in 24 hours	0.82	0.33	1.02	0.37	0.68	0.32	2.12	0.38	2.00	0.97	1.51	1.81	2.12
Snowfall (unmelted)	0.9	8.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	4.3	23.1
Departure from Average*	-6.3	+1.9	+1.4	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	+0.6	-0.3	-3.3
Number of Days With													
0.01 Inch or More	7	7	13	8	7	1	6	8	8	8	10	5	88
0.50 Inch or More	3	0	1	0	2	0	2	0	1	3	5	2	19
1.00 Inch or More	0	0	1	0	0	0	1	0	1	0	3	1	7
Thunder	1	0	4	4	4	2	7	7	5	2	4	1	41
Hail	0	0	0	0	0	0	1	0	0	0	0	0	1
Ice Pellets	0	0	0	0	0	0	0	0	0	0	0	0	0
Freezing Precipitation	2	0	0	0	0	0	0	0	0	0	0	2	4
Snowfall 1.0 Inch or More	0	2	1	0	0	0	0	0	0	0	1	2	6
Snowcover Trace or More	10	21	6	0	0	0	0	0	0	0	3	6	46
Average Sky Condition (No. of Days)													
Clear	13	14	9	15	19	21	11	15	9	12	9	11	158
Partly Cloudy	5	3	7	8	6	6	8	11	11	11	3	8	87
Cloudy	13	12	15	7	6	3	12	5	10	8	18	12	121
Wind													
Prevailing Direction	S	W	W	W	N	N	S	S	E	W	W	W	W
Average Speed (mph)	9.7	8.9	8.4	9.6	6.8	5.7	3.7	3.5	4.7	5.6	8.1	7.6	6.9
Peak Gust (mph)	44	38	42	46	52	30	32	34	34	30	40	37	52

*Average computed from 1951-1980, Urbana data, or portions thereof.

CLIMATOLOGICAL DATA
Champaign-Urbana, Illinois 1987

ILLINOIS STATE WATER SURVEY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL SUMMARY
Temperature (°F)													
Highest	52	56	75	88	92	100	94	95	91	77	78	54	100
Lowest	-12	16	16	21	39	50	55	49	44	25	14	10	-12
Mean Maximum	31.5	43.7	55.0	65.0	82.3	85.7	85.8	83.4	79.5	60.4	53.4	39.2	63.7
Mean Minimum	16.5	25.8	33.3	40.6	55.9	62.3	65.4	62.9	54.6	35.4	35.3	27.1	42.9
Monthly Mean	24.0	34.8	44.2	52.8	69.1	74.0	75.6	73.2	67.1	47.9	44.4	33.2	53.3
Departure from Average*	-2.1	+5.9	+4.7	+1.4	+7.3	+2.7	+0.4	+0.0	+0.4	-7.1	+3.3	+3.0	+1.6
Number of Days													
Maximum ≥90°	0	0	0	0	6	8	9	5	1	0	0	0	29
Maximum ≤32°	16	3	0	0	0	0	0	0	0	0	0	4	23
Minimum ≤32°	30	26	12	6	0	0	0	0	0	9	11	28	122
Minimum ≤ 0°	6	0	0	0	0	0	0	0	0	0	0	0	6
Heating Degree Days	1262	841	637	370	40	1	0	9	41	521	615	979	5316
Cooling Degree Days	0	0	0	14	174	279	335	270	110	0	2	0	1184
Precipitation (Inches)													
Total (liquid equivalent)	1.90	0.60	1.18	3.38	3.16	4.99	7.84	5.01	2.01	1.10	4.80	5.42	41.39
Departure from Average*	-0.22	-1.32	-2.03	-0.28	-0.77	+1.01	+4.27	+1.62	-1.17	-1.48	+2.55	+3.18	+5.05
Maximum in 24 hours	0.77	0.48	0.28	1.15	1.63	1.28	4.43	1.32	0.76	0.56	1.70	1.08	4.43
Snowfall (unmelted)	19.3	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	6.9	26.20
Departure from Average*	+13.5	-5.4	-4.4	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	-2.9	+2.3	+3.30
Number of Days With													
0.01 Inch or More	8	4	8	10	8	8	14	11	6	9	12	15	113
0.50 Inch or More	2	0	0	1	2	4	3	3	2	1	3	6	27
1.00 Inch or More	0	0	0	1	1	3	1	2	0	0	2	1	11
Thunder	1	0	0	3	7	8	8	6	3	1	1	2	40
Hail	0	0	0	1	0	1	0	1	0	0	0	0	3
Ice pellets	0	0	0	0	0	0	0	0	0	0	0	0	0
Freezing Precipitation	1	1	0	0	0	0	0	0	0	0	0	4	6
Snowfall 1.0 Inch or More	3	0	0	0	0	0	0	0	0	0	0	1	4
Snowcover Trace or More	27	11	0	0	0	0	0	0	0	0	0	8	46
Average Sky Condition (No. of Days)													
Clear	7	7	7	11	11	9	6	7	10	11	6	5	97
Partly Cloudy	5	5	8	6	13	10	17	14	9	6	8	5	106
Cloudy	19	16	16	13	7	11	8	10	11	14	16	21	162
Wind													
Prevailing Direction	W	NE	E	N	S	S	S	S	W	W	MSG	W	W
Average Speed (mph)	7.2	6.8	8.4	6.9	5.9	4.8	4.3	4.4	4.2	5.7	7.3	8.7	6.2
Peak Gust (mph)	36	44	36	38	32	40	37	30	40	34	38	52	52

*Average computed from 1889-1980, Urbana data, or portions thereof.

CLIMATOLOGICAL DATA
Champaign-Urbana, Illinois 1986

		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
Temperature (°F)														
Highest	59	60	84	91	87	95	94	92	91	76	66	49	95	
Lowest	-4	-6	12	25	35	46	59	40	35	32	7	6	-6	
Mean Maximum	37.2	33.7	53.6	69.0	75.4	84.1	87.1	81.9	81.1	64.4	44.2	36.7	62.4	
Mean Minimum	17.8	18.7	31.9	39.8	52.8	60.3	66.8	57.1	57.6	45.0	30.0	25.1	41.9	
Monthly Mean	27.5	26.2	42.8	54.4	64.1	72.2	77.0	69.5	69.4	54.7	37.1	30.9	52.2	
Departure from Normal*	+1.4	-2.6	+3.3	+3.1	+2.3	+0.9	+1.8	-3.7	+2.7	-0.3	-4.0	+0.7	+0.5	
Number of Days														
Maximum ≥90°	0	0	0	2	0	6	9	2	3	0	0	0	22	
Maximum ≤32°	11	13	2	0	0	0	0	0	0	0	2	9	37	
Minimum ≤32°	29	23	15	5	0	0	0	0	0	1	19	26	118	
Minimum ≤ 0°	2	3	0	0	0	0	0	0	0	0	0	0	5	
Heating Degree Days	1156	1080	690	335	101	12	0	25	34	322	831	1050	5636	
Cooling Degree Days	0	0	8	23	83	233	378	173	173	10	0	0	1081	
Precipitation (Inches)														
Total (All Types)	0.06	2.65	1.02	2.67	2.72	4.28	4.77	1.42	7.90	3.31	2.94	1.71	35.45	
Departure from Normal*	-2.06	+0.73	-2.19	-0.99	-1.21	+0.30	+1.20	-1.98	+4.72	+0.73	+0.39	-0.53	-0.89	
Maximum in 24 Hours	0.02	0.87	0.35	1.74	0.68	1.27	1.93	0.67	2.77	0.92	1.34	1.10	2.77	
Snowfall (Unmelted)	0.6	13.3	0.2	0.1	0	0	0	0	0	T	0.3	T	14.5	
Departure from Normal*	-5.2	+7.9	-4.2	-0.6	0	0	0	0	0	0	-1.7	-4.6	-8.4	
Number of Days														
0.01 Inch or More	3	12	6	10	10	9	10	6	12	12	11	8	109	
0.50 Inch or More	0	2	0	1	2	3	3	1	5	2	1	1	21	
1.00 Inch or More	0	0	0	1	0	2	1	0	2	0	1	1	8	
Thunderstorms	0	1	2	2	6	7	6	1	7	3	0	0	35	
Hail	0	0	1	1	0	0	0	0	0	0	0	0	2	
Ice Pellets	1	2	1	0	0	0	0	0	0	0	0	0	1	
Freezing Rain	0	2	1	0	0	0	0	0	0	0	0	0	2	
Snowfall 1.0 Inch or More	0	5	0	0	0	0	0	0	0	0	0	0	5	
Snowcover Trace or More	13	21	7	0	0	0	0	0	0	0	2	0	43	
Average Sky Condition (No. of Days)														
Clear	8	3	9	11	5	8	18	11	6	11	2	8	100	
Partly Cloudy	10	6	7	10	13	9	9	18	7	7	6	4	106	
Cloudy	13	19	15	9	13	13	4	2	17	13	22	19	159	
Wind														
Prevailing Direction	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	W	W	MSG	
Average Speed (mph)	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	6.8	6.0	MSG	
Peak Gust (mph)	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	36	30	MSG	

*Average computed from 1889-1980 Urbana data, or portions thereof.

CLIMATOLOGICAL DATA
Champaign-Urbana Illinois 1985

ILLINOIS : THE WATER SURVEY

ANNUAL SUMMARY														
TEMPERATURE (°F)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
Highest	40	57	81	83	90	92	92	88	93	84	68	51	93	
Lowest	-24	-4	21	26	41	46	54	52	34	28	18	-11	-24	
Mean Maximum	26.8	32.8	53.1	67.3	76.7	79.8	83.9	79.4	78.5	66.8	50.3	29.5	60.4	
Mean Minimum	10.5	17.6	34.7	46.1	53.7	58.8	63.4	60.4	53.4	45.9	34.6	11.4	40.9	
Monthly Mean	18.7	25.2	43.9	56.7	65.2	69.3	73.7	69.9	66.0	56.4	42.5	20.5	50.6	
Departure from Normal*	-7.4	-3.7	+4.4	+5.4	+3.4	-2.0	-1.5	-3.3	-0.7	+1.4	+1.4	-9.7	-1.1	
NUMBER OF DAYS														
Maximum ≥90°	0	0	0	0	1	3	1	0	3	0	0	0	8	
Maximum ≤32°	24	14	1	0	0	0	0	0	0	0	2	15	56	
Minimum ≤32°	31	23	10	5	0	0	0	0	0	4	10	31	114	
Minimum ≤ 0°	5	5	0	0	0	0	0	0	0	0	0	7	17	
Heating Degree Days	1428	1107	653	281	69	33	0	9	120	271	669	1375	6015	
Cooling Degree Days	0	0	5	39	82	170	276	170	156	12	0	0	910	
PRECIPITATION (Inches)														
Total (All Types)	0.67	4.52	5.02	2.40	3.45	5.50	4.16	5.10	0.71	1.60	10.08	2.33	45.54	
Departure from Normal*	-1.45	+2.60	+1.81	-1.26	-0.48	+1.52	+0.59	+1.70	-2.47	-0.98	+7.53	+0.09	+9.20	
Maximum in 24 Hours	0.22	1.58	1.33	1.31	1.39	2.33	0.95	1.23	0.21	0.34	1.69	1.23	2.33	
Snowfall (Unmelted)	6.1	9.3	0	0	0	0	0	0	0	0	0	4.2	19.6	
Departure from Normal*	+0.3	+3.0	-4.4	-0.7	0	0	0	0	0	0	-2.0	-0.4	-4.4	
NUMBER OF DAYS														
0.01 Inch or More	8	10	14	10	9	13	11	13	7	12	18	8	133	
0.50 Inch or More	0	3	4	1	2	4	4	4	0	0	8	1	31	
1.00 Inch or More	0	1	1	1	2	1	0	2	0	0	5	1	14	
Thunderstorms	0	0	1	4	4	9	10	6	1	2	7	0	44	
Hail	0	0	2	1	0	1	0	0	0	0	0	0	4	
Ice Pellets	0	0	1	0	0	0	0	0	0	0	2	1	4	
Freezing Rain	0	0	0	0	0	0	0	0	0	0	3	2	5	
Snowfall 1.0 Inch or More	3	4	0	0	0	0	0	0	0	0	0	2	9	
Snowcover Trace or More	24	23	0	0	0	0	0	0	0	0	0	24	71	
Average Sky Condition (No. of Days)														
Clear	10	10	10	11	16	5	12	4	12	6	0	7	103	
Partly Cloudy	13	8	8	11	9	15	14	13	13	9	5	12	130	
Cloudy	8	10	13	8	6	10	5	14	5	16	25	12	132	
Wind														
Prevailing Direction	NW	S	S	S	S	SW	S	S	MSG	MSG	MSG	MSG	MSG	
Average Speed (mph)	8.9	7.8	8.7	8.3	7.2	5.6	4.7	4.8	MSG	MSG	MSG	MSG	MSG	
Peak Gust (mph)	47	39	52	55	34	36	31	26	MSG	MSG	MSG	MSG	MSG	
*Average computed from 1889-1980 Urbana data, or portions thereof.														

*Average computed from 1889-1980 Urbana data, or portions thereof.

CLIMATOLOGICAL DATA
Urbana, Illinois 984

CLIMATE INFORMATION T

ILLINOIS STATE WATER SURVEY

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Summary
Temperature (°F)													
Highest	38	63	54	78	88	93	95	93	94	80	65	68	95
Lowest	-16	0	6	31	38	54	54	51	35	32	19	2	-16
Mean Maximum	28.4	43.1	37.8	57.7	69.5	86.5	83.4	85.8	75.7	67.7	49.1	44.1	56.6
Mean Minimum	13.5	28.4	25.1	41.9	48.9	64.7	62.2	62.5	52.6	49.2	29.8	28.1	42.3
Monthly Mean	21.0	35.8	31.5	49.8	59.2	75.6	72.8	74.1	64.2	58.5	39.5	36.1	51.5
Departure from Normal*	-5.1	+6.8	-8.0	-1.6	-2.6	+4.3	-2.4	+0.8	-2.5	+3.5	-1.6	+6.0	-0.2
Number of Days													
Maximum > 90°	0	0	0	0	0	10	5	6	2	0	0	0	23
Maximum < 32°	17	6	8	0	0	0	0	0	0	0	0	6	37
Minimum < 32°	31	17	27	1	0	0	0	0	0	1	23	19	119
Minimum < 0°	4	1	0	0	0	0	0	0	0	0	0	0	5
Heating Degree Days	1361	839	1032	456	196	0	0	0	140	212	758	887	5881
Cooling Degree Days	0	0	0	6	22	326	248	292	120	16	0	0	1030
Precipitation (Inches)													
Total (All types)	0.72	2.87	4.85	4.68	5.65	1.22	4.66	2.61	3.00	2.77	3.64	3.90	40.57
Departure from Normal*	-1.39	+0.95	+1.64	+0.99	+1.70	-2.81	+1.11	-0.80	-0.16	+0.17	+1.07	+1.63	+4.10
Maximum in 24 Hours	0.22	0.72	1.78	0.95	1.68	0.84	1.64	1.46	1.14	1.00	1.16	1.20	1.78
Snowfall (Unmelted)	5.8	11.6	8.4	0	0	0	0	0	0	0	1.0	1.1	27.9
Departure from Normal*	0	+6.3	+4.0	-0.7	0	0	0	0	0	-0.1	-0.8	-3.7	+4.3
Number of Days													
0.01 Inch or More	8	11	12	14	14	10	11	10	11	15	8	16	140
0.50 Inch or More	0	2	3	4	3	1	2	2	1	1	4	3	26
1.00 Inch or More	0	0	1	0	3	0	2	1	1	1	1	1	11
Thunderstorms	0	0	2	5	6	6	8	5	3	1	5	0	41
Hail	0	0	1	1	0	1	0	0	0	0	1	0	4
Ice Pellets	2	0	1	0	0	0	0	0	0	0	0	0	3
Freezing Rain	3	0	4	0	0	0	0	0	0	0	0	0	8
Snowfall 1.0 Inch or More	2	2	2	0	0	0	0	0	0	0	1	0	7
Snowcover Trace or More	31	14	21	0	0	0	0	0	0	0	4	5	75
Average Sky Conditions (No. of Days)													
Clear	11	13	7	9	15	16	14	16	15	10	10	8	144
Partly Cloudy	12	3	8	5	8	11	13	11	7	6	12	4	100
Cloudy	8	13	16	16	8	3	4	4	8	15	8	19	122
Wind													
Prevailing Direction	S	S	E	E	S	S	S	S	S	S	S	S	S
Average Speed (mph)	7.9	8.0	8.0	8.7	7.1	6.9	5.5	5.1	6.5	5.4	7.6	8.1	7.1
Peak Gust (mph)	34	41	38	58	40	57	33	23	35	33	36	43	57

*Average computed from 1889-1983 Urbana data, or portions thereof.

Temperature (°F)

Highest	44	64	76	79	83	94	99	99	96	87	70	45	99
Lowest	10	6	15	25	33	47	50	58	34	32	22	-20	-20
Mean Maximum	34.0	41.5	48.3	55.9	68.4	83.4	89.7	88.4	80.1	65.0	52.2	22.8	60.8
Mean Minimum	23.8	26.7	32.6	39.5	48.6	62.8	68.8	68.0	55.2	46.0	35.9	9.7	43.1
Monthly Mean	28.9	34.1	40.5	47.7	58.5	73.1	79.3	78.2	67.7	55.5	44.1	16.3	52.0
Departure from Normal*	+2.8	+5.2	+1.0	-3.7	-3.3	+1.8	+4.1	+5.0	+1.0	+0.5	+3.0	-13.9	+0.3

Number of Days

Maximum $\geq 90^{\circ}$	0	0	0	0	0	4	20	14	7	0	0	0	45
Maximum $\leq 32^{\circ}$	13	5	4	0	0	0	0	0	0	0	1	21	44
Minimum $\leq 32^{\circ}$	30	19	17	5	0	0	0	0	0	1	13	29	114
Minimum $\leq 0^{\circ}$	0	0	0	0	0	0	0	0	0	0	0	9	9
Heating Degree Days	1113	860	754	515	203	12	3	0	85	306	621	1502	5974
Cooling Degree Days	0	0	1	3	9	260	451	417	173	19	0	0	1333

Precipitation (Inches)

Total (All Types)	0.74	1.15	3.55	6.41	5.56	9.15	1.40	4.63	0.83	7.24	4.61	4.99	50.26
Departure from Normal*	-1.38	-0.78	+0.34	+2.75	+1.63	+5.17	-2.17	+1.23	-2.35	+4.66	+2.06	+2.75	+13.92
Maximum in 24 Hours	0.44	0.64	1.15	1.59	2.26	3.89	0.93	2.12	0.47	3.72	1.20	1.56	3.89
Snowfall (unmelted)	3.0	2.3	9.1	0	0	0	0	0	0	0	0.2	20.0	34.6
Departure from Normal*	-2.8	-3.0	+4.7	+0.7	0	0	0	0	0	-0.1	-1.6	+15.4	+11.6

Number of Days

0.01 Inch or More	8	6	13	18	12	8	5	6	7	12	13	17	125
0.50 Inch or More	0	1	2	5	4	4	1	3	0	5	4	4	33
1.00 Inch or More	0	0	1	2	2	4	0	2	0	1	1	0	13
Thunderstorms	0	0	4	6	5	6	5	6	2	1	3	0	38
Hail	0	0	1	1	1	1	0	1	0	0	0	0	5
Ice Pellets	1	0	0	2	0	0	0	0	0	1	1	1	6
Freezing Rain	1	1	1	0	0	0	0	0	0	0	0	2	5
Snowfall 0.1 Inch or More	5	5	4	0	0	0	0	0	0	0	1	12	27
Snowcover Trace or More	0	9	7	0	0	0	0	0	0	0	0	25	41

Average Sky Conditions (No. of Days)

Clear	8	9	9	8	12	14	15	19	13	12	6	7	132
Partly Cloudy	14	9	6	10	13	10	13	4	12	9	13	6	119
Cloudy	9	10	16	12	6	6	3	8	5	10	11	18	114

Wind

Prevailing Direction	NW	SE	SE	SW	SE	SE	SW	NE	S	S	S	SW	S
Average Speed (mph)	6.4	5.8	7.1	7.1	6.9	4.9	5.2	4.5	4.8	6.4	8.6	8.3	6.3
Peak Gust (mph)	40	33	32	45	48	28	36	30	31	37	43	41	48

*Average computed from 1889-1982 Urbana data, or portions thereof.

1982

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Summa
Temperature - (°F)													
Highest	41	47	68	78	90	88	90	93	88	85	70	69	93
Lowest	-23	-14	10	16	47	49	57	50	40	27	17	8	-23
Mean Maximum	24.7	30.7	46.4	56.8	79.4	76.9	84.1	80.5	76.0	65.6	49.9	44.5	59.6
Mean Minimum	6.5	16.9	31.1	36.6	57.2	57.3	66.4	60.9	54.5	44.1	33.8	31.1	41.4
Monthly Mean	15.6	23.8	38.8	46.7	68.3	67.1	75.3	70.7	65.3	54.9	41.9	37.8	50.5
Departure from Normal*	-10.5	-5.1	-0.7	-4.6	+6.5	-4.2	+0.1	-2.5	-1.4	-0.1	+0.8	+7.7	-1.2
Number of Days													
Maximum ≥ 90°	0	0	0	0	1	0	1	3	0	0	0	0	5
Maximum ≤ 32°	20	14	4	3	0	0	0	0	0	0	3	5	49
Minimum ≤ 32°	30	26	13	10	0	0	0	0	0	6	16	20	121
Minimum ≤ 0°	9	4	0	0	0	0	0	0	0	0	0	0	12
Heating Degree Days	1524	1147	805	542	26	36	0	12	88	345	688	835	6046
Cooling Degree Days	0	0	0	0	136	108	323	195	104	37	0	0	903
Precipitation (Inches)													
Total (All Types)	5.79	1.33	3.18	2.45	6.50	3.57	4.96	2.77	1.48	3.01	4.34	4.38	43.76
Departure from Normal*	+3.67	-0.59	-0.03	-1.20	+2.57	-0.43	+1.39	-0.63	-1.70	+0.42	+1.79	+2.12	+7.36
Maximum in 24 Hours	1.24	0.35	0.73	0.58	2.10	1.41	1.50	1.09	0.77	1.03	0.87	1.29	2.10
Snowfall (unmelted)	22.2	9.00	2.3	6.6	0	0	0	0	0	0	0.3	1.6	42.0
Departure from Normal*	+16.4	+3.6	-2.1	+5.9	0	0	0	0	0	0	-1.5	-3.1	+19.2
Number of Days													
0.01 Inch or More	14	8	15	10	9	12	8	10	9	10	15	11	131
0.50 Inch or More	5	0	1	3	4	3	4	2	1	3	4	3	33
1.00 Inch or More	2	0	0	0	2	1	2	1	0	1	0	1	10
Thunderstorms	1	0	4	4	7	5	6	3	3	2	1	3	39
Hail	0	0	0	0	0	1	0	0	0	0	0	0	1
Ice Pellets	5	0	1	1	0	0	0	0	0	0	1	1	9
Freezing Rain	4	1	4	0	0	0	0	0	0	0	0	1	10
Snowfall 0.1 Inch or More	10	6	2	3	0	0	0	0	0	0	2	1	24
Snowcover Trace or More	31	31	5	6	0	0	0	0	0	0	1	4	76
Average Sky Conditions (No. of Days)													
Clear	8	8	7	12	9	11	15	15	12	12	6	6	121
Partly Cloudy	8	10	11	4	15	13	10	5	13	8	5	8	110
Cloudy	15	10	13	14	7	6	6	11	5	11	19	17	134
Wind													
Prevailing Direction	NW	NE	NW	NW	SW	SW	SW	SW	S	S	S	S	S
Average Speed (mph)	8.6	6.6	8.3	7.6	4.6	5.3	4.8	4.0	4.0	4.7	7.2	6.7	6.0
Peak Gust (mph)	54	37	49	65	44	36	33	47	28	44	45	47	65

Average computed from 1889-1981 Urbana data, or portions thereof.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Summa
Temperature (°F)													
Highest	54	62	84	85	85	92	95	88	86	83	70	54	91
Lowest	-1	-10	20	31	35	53	53	51	42	19	16	-10	-10
Mean Maximum	32.1	39.7	50.6	66.8	68.8	82.7	82.7	80.7	74.9	62.2	52.0	33.1	60.5
Mean Minimum	16.8	21.6	31.2	46.2	48.3	63.5	64.7	62.4	54.4	41.8	34.8	19.4	42.1
Monthly Mean	24.5	30.7	40.9	56.5	58.6	73.1	73.7	71.6	64.7	52.0	43.4	26.3	51.3
Departure from Normal*	-1.6	+1.6	+1.4	+5.2	-3.2	+1.8	-1.5	-1.6	-2.0	-3.0	+2.3	-3.8	-0.1
Number of Days													
Maximum ≥ 90°	0	0	0	0	0	2	5	0	0	0	0	0	0
Maximum ≤ 32°	16	8	0	0	0	0	0	0	0	0	1	15	40
Minimum ≤ 32°	29	19	23	1	0	0	0	0	0	4	13	28	117
Minimum ≤ 0°	2	2	0	0	0	0	0	0	0	0	0	3	7
Heating Degree Days	1248	956	740	266	219	2	2	3	85	401	638	1194	5754
Cooling Degree Days	0	0	1	18	27	251	281	213	81	6	0	0	876
Precipitation (Inches)													
Total (All Types)	0.64	2.21	0.79	6.03	5.83	4.72	6.83	8.72	3.82	2.82	1.27	2.32	46.00
Departure from Normal*	-1.48	+0.29	-2.42	+2.37	+1.90	+0.74	+3.26	+5.32	+0.64	+0.24	-1.28	+0.08	+9.66
Maximum in 24 Hours	0.34	1.00	0.61	1.33	1.51	1.98	1.80	1.96	2.57	0.91	0.31	0.67	2.57
Snowfall (Unmelted)	5.9	10.3	1.4	0	0	0	0	0	0	0	0	18.5	36.1
Departure from Normal*	+0.1	+4.9	-3.0	-0.7	0	0	0	0	0	-0.1	-2.0	+13.9	+13.1
Number of Days													
0.01 Inch or More	5	12	4	15	13	12	11	13	7	10	7	10	119
0.50 Inch or More	0	2	1	5	4	4	5	6	2	3	0	1	33
1.00 Inch or More	0	0	0	1	1	1	2	4	1	0	0	0	10
Thunderstorms	0	2	0	10	6	9	9	12	4	2	1	0	55
Hail	0	0	0	2	1	0	0	0	0	0	0	0	3
Ice Pellets	0	1	0	0	0	0	0	0	0	0	1	4	6
Freezing Rain	0	0	0	0	0	0	0	0	0	0	0	2	2
Snowfall 0.1 Inch or More	4	7	2	0	0	0	0	0	0	0	0	7	20
Snowcover Trace or More	19	14	2	0	0	0	0	0	0	0	0	15	50
Average Sky Conditions (No. of Days)													
Clear	10	9	13	12	11	9	10	11	14	10	9	8	126
Partly Cloudy	14	9	11	9	10	13	11	15	8	11	9	10	130
Cloudy	7	10	7	9	10	8	10	5	8	10	12	13	109
Wind													
Prevailing Direction	WNW	S	SW	S	N	SW	NE	SW	SW	SE	SE	WNW	SW
Average Speed (mph)	6.5	8.4	7.3	8.7	7.2	6.0	4.3	4.7	5.8	6.8	6.2	6.9	6.6
Peak Gust (mph)	36	41	48	52	40	55	39	39	47	53	54	40	55

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Summary
Temperature (°F)													
Highest	56	49	61	89	89	92	100	96	90	86	71	66	100
Lowest	5	1	4	31	39	44	58	58	40	25	22	-2	-2
Mean Maximum	33.2	30.0	43.4	59.2	75.2	80.6	90.2	87.0	79.6	61.9	50.1	38.1	60.7
Mean Minimum	19.7	15.8	28.3	40.2	53.5	58.2	67.0	65.5	54.9	39.6	32.8	24.5	41.7
Monthly Mean	26.5	22.9	35.9	49.7	64.4	69.4	78.6	76.3	67.3	50.8	41.5	31.3	51.2
Departure from Normal*	+0.2	-6.2	-3.6	-1.7	+2.6	-1.9	+3.4	+3.1	+0.6	-4.3	+0.4	+1.2	-0.5
Number of Days													
Minimum ≥ 90°	0	0	0	0	0	1	17	14	1	0	0	0	33
Minimum ≤ 32°	16	20	3	0	0	0	0	0	0	0	0	8	47
Minimum ≤ 32°	29	26	20	3	0	0	0	0	0	9	18	25	130
Minimum ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	1	1
Heating Degree Days	1189	1215	898	460	96	28	0	2	57	444	699	1037	6125
Cooling Degree Days	0	0	0	9	82	167	431	358	134	12	0	0	1193
Precipitation (Inches)													
Total (all types)	0.78	1.70	4.29	2.39	3.76	4.62	1.36	4.26	3.34	2.24	1.63	1.36	31.73
Departure from Normal*	-1.34	-0.23	+1.11	-1.26	-0.20	+0.62	-2.18	+0.88	+0.14	-0.35	-0.93	-0.90	-4.64
Minimum in 24 Hours	0.23	0.52	1.01	0.80	0.83	1.32	0.89	1.55	1.50	0.62	1.06	0.59	1.92
Snowfall (unmelted)	3.3	9.7	1.2	5.0	0	0	0	0	0	0	10.9	1.3	31.4
Departure from Normal*	-2.2	+4.4	-3.2	+4.4	0	0	0	0	0	-0.1	+9.1	-3.4	+9.0
Number of Days													
0.1 Inch or More	8	12	15	10	8	7	7	15	9	6	6	8	111
0.50 Inch or More	0	1	2	2	3	4	1	3	2	3	1	1	23
1.00 Inch or More	0	0	0	0	0	1	0	1	2	0	1	0	5
Thunderstorms	1	1	3	4	7	6	4	10	7	3	0	0	46
Hail	0	0	0	1	2	2	0	0	0	0	0	0	5
Free Pellets	3	3	3	2	0	0	0	0	0	1	1	1	14
Freezing Rain	2	2	0	0	0	0	0	0	0	0	1	1	6
Snowfall 0.1 Inch or More	4	10	3	4	0	0	0	0	0	0	2	1	24
Snowcover Trace or More	5	26	8	2	0	0	0	0	0	0	4	9	54
Average Sky Conditions (No. of Days)													
Clear	14	6	7	11	13	13	15	18	13	16	15	7	141
Partly Cloudy	10	11	7	7	9	12	13	6	12	8	5	7	107
Cloudy	7	12	17	12	9	5	3	7	5	7	10	7	118
Average Wind Direction	WNW	WNW	W	WNW	W	S	SW	S	S	SW	SW	S	S
Average Speed (mph)	6.7	6.1	8.1	7.2	4.9	4.8	5.0	4.5	4.0	5.2	7.0	6.1	5.8
Maximum Gust (mph)	35	51	77	76	73	73	74	76	76	76	73	74	77

CLIMATEALOGICAL DATA
URBANA, ILLINOIS 1979

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Summary
Temperature (°F)													
Highest	36	44	72	74	88	92	90	92	88	84	71	62	92
Lowest	-14	-12	6	21	36	50	51	48	43	28	20	3	-14
Mean Maximum	20.7	25.3	47.3	58.0	73.7	85.0	82.4	81.3	78.6	66.2	49.9	42.5	59.2
Mean Minimum	5.9	8.7	30.6	40.5	49.1	60.3	62.5	63.5	54.3	43.9	32.9	22.6	39.6
Monthly Mean	13.3	17.0	39.0	49.3	61.4	72.7	72.5	72.4	66.5	54.2	40.7	34.6	49.6
Departure from Normal*	-13.0	-12.1	-0.5	-2.1	-0.4	+1.4	-2.7	-0.8	-0.2	-0.9	-0.4	+4.4	-2.1
Number of Days													
Maximum ≥90°	0	0	0	0	0	9	1	5	0	0	0	0	15
Maximum <32°	26	18	4	0	0	0	0	0	0	0	2	3	53
Minimum <32°	31	28	19	6	0	0	0	0	0	4	13	23	124
Minimum ≤ 0°	11	9	0	0	0	0	0	0	0	0	0	0	20
Heating Degree Days	1595	1337	798	466	172	6	2	12	55	352	724	934	6453
Cooling Degree Days	0	0	0	2	67	244	242	247	109	24	0	0	935
Precipitation (Inches)													
Total (all types)	2.86	1.27	4.87	6.47	1.47	1.01	8.75	4.80	0.53	2.00	2.71	1.45	38.19
Departure from Normal*	+0.74	-0.66	+1.69	+2.82	-2.49	-2.99	+5.21	+1.42	-2.67	-0.59	+0.15	-0.81	+1.82
Maximum in 24 Hours	0.86	0.48	1.59	2.84	0.43	0.47	3.70	1.16	0.52	0.48	1.37	0.89	3.70
Snowfall (unmelted)	28.3	5.8	4.9	0.4	0	0	0	0	0	0	1.2	0.1	40.7
Departure from Normal*	+22.8	+0.5	+0.5	-0.2	0	0	0	0	0	-0.1	-0.6	-4.6	+18.2
Number of Days													
0.01 Inch or More	15	10	16	13	7	8	14	5	2	13	12	7	122
0.50 Inch or More	1	0	4	3	0	0	3	5	1	0	1	1	19
1.00 Inch or More	0	0	0	2	0	0	3	1	0	0	1	0	7
Thunderstorms	0	0	3	5	4	6	7	6	1	3	0	1	36
Hail	0	0	1	1	0	0	1	0	0	0	0	0	3
Ice Pellets	3	0	0	1	0	0	0	0	0	1	2	1	8
Freezing Rain	2	2	0	0	1	0	0	0	0	0	0	0	6
Snowfall 0.1 Inch or More	15	3	3	1	0	0	0	0	0	0	3	1	26
Snowcover Trace or More	31	28	13	0	0	0	0	0	0	0	2	2	76
Average Sky Conditions (No. of Days)													
Clear	10	6	4	5	11	6	6	5	22	10	8	10	103
Partly Cloudy	3	6	5	8	11	14	11	16	4	14	8	7	107
Cloudy	18	16	22	17	9	10	14	10	4	7	14	14	155
Wind													
Prevailing Direction	W	SE	SE	NE	SE	S	NE	SW	SW	NW	SW	S	SW
Average Speed (mph)	6.2	5.8	6.0	6.4	5.4	5.2	3.5	4.2	3.3	6.7	7.9	7.4	5.7
Peak Gust (mph)	36	40	41	40	37	31	30	33	21	48	39	57	57

*Average computed from 1889-1978 Urbana data, or portions thereof.

CLIMATOLOGICAL DATA
URBANA, ILLIN , 1978

Sheet 1
Illinois State
Water Survey
Annual
Summary

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Summary
Temperature (°F)													
Highest	43	38	77	79	90	93	92	89	93	78	78	58	93
Lowest	-5	-2	-1	34	32	49	54	55	43	30	21	4	-5
Mean Maximum	23.7	25.4	40.7	61.7	69.8	83.2	83.5	81.7	82.6	63.6	51.3	37.7	58.7
Mean Minimum	8.7	10.8	26.3	41.6	51.2	61.9	64.0	63.0	58.8	42.2	35.7	23.4	40.6
Monthly Mean	16.2	18.1	33.5	51.7	60.5	72.6	73.8	72.4	70.7	52.9	43.5	30.6	49.7
Departure from Normal*	-10.1	-11.0	-5.9	+0.4	-1.2	+1.3	-0.5	-1.0	+4.0	-2.2	+2.4	+0.4	-2.0
Number of Days													
Maximum ≥ 90°	0	0	0	0	2	6	5	0	6	0	0	0	19
Maximum ≤ 32°	24	25	7	0	0	0	0	0	0	0	1	8	65
Minimum ≤ 32°	30	28	22	0	1	0	0	0	0	1	13	30	125
Minimum ≤ 0°	6	1	1	0	0	0	0	0	0	0	0	0	8
Heating Degree Days	1505	1308	970	393	219	7	0	0	37	368	635	1061	6503
Cooling Degree Days	0	0	0	0	88	242	281	235	216	1	0	0	1063
Precipitation (Inches)													
Total (all types)	1.34	1.18	3.70	2.62	4.38	1.96	5.53	5.77	1.83	1.75	2.62	3.39	36.07
Departure from Normal*	-0.81	-0.73	+0.59	-1.11	+0.41	-2.03	+2.16	+2.56	-1.30	-0.87	+0.07	+1.25	+0.18
Maximum in 24 Hours	0.38	0.95	0.93	0.78	1.56	1.02	1.63	2.49	1.28	0.82	0.78	1.01	2.49
Snowfall (unmelted)	18.5	13.7	13.1	0	0	0	0	0	0	0	0.2	0.7	46.2
Departure from Normal*	+13.4	+8.4	+8.7	-0.7	0	0	0	0	0	-0.1	-1.4	-3.7	+24.5
Number of Days													
0.01 Inch or More	15	8	14	12	11	9	10	12	7	9	11	11	129
0.50 Inch or More	0	1	2	0	3	1	5	4	2	1	2	2	23
1.00 Inch or More	0	0	0	0	2	1	2	2	0	0	0	0	7
Thunderstorms	0	0	1	7	4	7	7	10	3	3	1	2	45
Hail	0	0	0	1	0	0	3	0	0	0	0	0	4
Ice Pellets	0	1	2	0	0	0	0	0	0	0	0	2	5
Freezing Rain	1	3	3	0	0	0	0	0	0	0	0	6	13
Snowfall 0.1 Inch or More	12	8	4	0	0	0	0	0	0	0	1	1	26
Snowcover Trace or More	30	28	24	0	0	0	0	0	0	0	1	6	89
Average Sky Conditions (No. of Days)													
Clear	9	5	7	5	9	7	7	10	19	14	8	10	110
Partly Cloudy	6	10	10	9	5	13	14	13	8	9	6	6	109
Cloudy	16	13	14	16	17	10	10	8	3	8	16	15	146
Wind													
Prevailing Direction	W	N	NE	E	E	S	SW	SE	SW	SW	NE	SW	SW
Average Speed (mph)	8.5	5.3	7.5	8.3	7.2	6.3	5.2	4.4	5.2	6.5	7.1	8.8	6.7
Peak Gust (mph)	57	34	39	43	45	37	39	50	30	39	47	43	57

* Average computed from 1889-1970 Urbana data, or portions thereof.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Summary
Temperature (°F)													
Highest	31	63	71	88	91	95	96	90	90	73	73	55	96
Lowest	-20	-1	17	28	36	44	53	53	48	31	4	-6	-20
Mean Maximum	18.2	36.0	54.1	69.4	82.4	80.7	87.9	81.0	78.3	61.6	49.0	32.9	61.0
Mean Minimum	2.9	21.2	36.0	46.0	59.1	59.0	65.9	62.3	57.4	42.1	35.4	19.3	42.2
Monthly Mean	10.6	28.6	45.1	57.7	70.8	69.9	76.9	71.7	67.9	51.9	42.2	26.1	51.6
Departure from Normal*	-15.8	-0.5	+5.7	+6.4	+9.1	-1.4	+2.6	-1.7	+1.2	-3.2	+1.1	-4.1	-0.1

Number of Days													
Maximum ≥ 90°	0	0	0	0	8	3	12	1	1	0	0	0	25
Maximum ≤ 32°	31	10	0	0	0	0	0	0	0	0	3	13	57
Minimum ≤ 32°	31	21	10	4	0	0	0	0	0	2	13	27	108
Minimum ≤ 0°	14	3	0	0	0	0	0	0	0	0	0	5	22
Heating Degree Days	1683	1012	608	265	48	27	0	1	32	402	679	1199	5956
Cooling Degree Days	0	0	0	55	230	179	377	213	123	0	1	0	1178

Precipitation (Inches)													
Total (all types)	1.31	1.36	5.83	0.78	3.58	2.30	3.03	10.01	4.83	4.75	2.52	2.63	42.93
Departure from Normal*	-0.84	-0.55	+2.72	-2.95	-0.39	-1.69	-0.34	+6.80	+1.70	+2.13	-0.03	+0.49	+7.04
Maximum in 24 Hours	0.37	0.55	1.59	0.35	1.24	1.13	1.78	2.06	2.62	2.23	0.93	0.95	2.62
Snowfall (unmelted)	18.8	5.9	4.6	1.0	0	0	0	0	0	0	4.2	17.4	51.9
Departure from Normal*	+13.7	+0.6	+0.2	+0.3	0	0	0	0	0	-0.1	+2.6	+13.0	+30.2

Number of Days													
≥ 0.01 Inch or More	14	9	13	8	6	12	10	13	8	13	14	13	133
≥ 0.50 Inch or More	0	1	6	0	3	1	2	9	4	3	1	2	32
≥ 1.00 Inch or More	0	0	2	0	1	1	1	6	1	3	0	0	15
Thunderstorms	1	1	3	1	9	7	9	13	7	4	1	0	56
Hail	0	0	1	0	0	0	0	0	0	0	0	0	1
Ice Pellets	0	1	0	0	0	0	0	0	0	0	2	2	5
Freezing Rain	2	2	0	0	0	0	0	0	0	0	1	3	8
Snowfall 0.1 Inch or More	14	5	2	1	0	0	0	0	0	0	1	8	31
Snowcover Trace or More	31	20	5	1	0	0	0	0	0	0	6	31	94

Average Sky Conditions (No. of Days)													
Clear	8	7	13	8	12	9	11	6	8	8	4	8	102
Partly Cloudy	4	4	2	9	10	5	10	8	11	8	9	8	88
Cloudy	19	17	16	13	9	16	10	17	11	15	17	15	175

Wind													
Prevailing Direction	W	SW	SE	SW	SW	SW	SW	SW	SW	SW	NE	S	SW
Average Speed (mph)	8.4	7.7	8.6	7.7	5.2	5.8	5.5	5.0	5.3	6.2	7.7	9.2	6.9
Peak Gust (mph)	53	49	59	53	60	36	43	59	33	33	44	49	60

* Average computed from 1889-1970 Urbana data, or portions thereof.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Summary
Temperature (°F)													
Highest	48	70	73	83	83	91	94	91	90	87	62	54	94
Lowest	-8	-2	20	27	32	52	55	52	41	25	6	-9	-9
Mean Maximum	30.3	47.2	55.6	66.4	70.4	82.4	84.6	81.1	76.1	58.8	43.5	33.2	60.8
Mean Minimum	14.6	28.4	35.1	42.0	48.0	60.1	63.7	59.9	51.4	39.0	24.7	13.6	40.0
Monthly Mean	22.5	37.8	45.4	54.2	59.2	71.2	74.2	70.5	63.8	48.9	34.1	23.4	50.4
Departure from Normal	-4.0	+9.0	+6.2	+2.8	-2.7	-0.2	-0.3	-3.0	-3.0	-6.4	-7.0	-7.0	-1.3
Number of Days													
Maximum ≥90°	0	0	0	0	0	4	6	1	1	0	0	0	12
Maximum ≤32°	15	6	0	0	0	0	0	0	0	0	4	11	36
Minimum ≤32°	31	17	16	4	1	0	0	0	0	6	25	30	130
Minimum ≤ 0°	3	1	0	0	0	0	0	0	0	0	0	3	7
Precipitation (Inches)													
Total (all types)	1.31	2.90	3.82	0.59	4.56	5.65	4.17	2.23	3.80	2.90	0.57	0.27	32.77
Departure from Normal	-0.84	+0.99	+0.71	-3.14	+0.59	+1.66	+0.80	-0.98	+0.67	+0.28	-1.98	-1.87	-3.17
Maximum in 24 Hours	0.51	1.58	1.03	0.14	1.98	1.44	0.86	1.22	0.98	1.84	0.51	0.17	1.98
Snowfall (unmelted)	4.2	1.5	3.6	0	0	0	0	0	0	0	T	3.2	12.5
Departure from Normal	-0.9	-3.8	-0.8	-0.7	0	0	0	0	0	-0.1	-1.6	-1.2	-9.2
Number of Days													
≥ 0.01	9	7	14	7	8	10	9	7	5	5	3	5	89
≥ 0.50	1	3	2	0	3	5	3	2	4	1	1	0	25
≥ 1.00	0	1	1	0	1	3	0	1	0	1	0	0	8
Thunderstorms	0	2	6	2	5	9	7	5	2	1	0	0	39
Hail	0	0	0	1	1	1	1	0	0	0	0	0	4
Freezing Rain	5	1	0	0	0	0	0	0	0	0	0	0	9
Snowfall ≥ 0.1	6	2	2	0	0	0	0	0	0	0	0	0	15
Snowcover ≥ Trace	25	10	4	0	0	0	0	0	0	0	1	13	53
Average Sky Conditions (No. of Days)													
Clear	7	9	3	12	11	11	8	9	11	12	11	9	113
Partly Cloudy	9	6	11	6	4	8	14	16	9	10	8	11	112
Cloudy	15	14	17	12	16	11	9	6	10	9	11	11	141
Wind													
Prevailing Direction	W	SW	S	S	SW	SW	SW	SW	SW	SW	NW	SW	SW
Average Speed (mph)	8.7	10.2	9.8	7.4	6.9	6.0	4.9	4.4	5.0	5.6	7.5	8.2	7.1
Peak Gust (mph)	43	43	56	45	49	47	48	27	40	38	43	39	56

CLIMATOLC CAL DATA
URBANA, ILLINOIS, 1975

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Summary
Temperature (°F)													
Highest	61	55	72	77	93	94	90	91	93	85	76	64	94
Lowest	7	-6	14	22	40	50	47	54	40	33	19	5	-6
Mean Maximum	36.8	34.2	44.5	58.0	76.8	82.6	83.4	84.2	72.3	67.4	54.8	38.7	61.1
Mean Minimum	24.0	22.8	28.4	37.7	54.7	62.1	63.5	65.4	52.2	44.8	38.8	26.7	43.4
Monthly Mean	30.4	28.5	36.5	47.8	65.8	72.4	73.5	74.8	62.2	56.1	46.8	32.7	52.2
Departure from Normal	+3.9	-0.3	-2.7	-3.6	+3.9	+1.0	-1.0	+1.3	-4.6	+0.8	+5.7	+2.3	+0.5
Number of Days													
Maximum ≥ 90°	0	0	0	0	2	5	2	5	1	0	0	0	15
Maximum ≤ 32°	9	9	5	0	0	0	0	0	0	0	0	0	38
Minimum ≤ 32°	28	27	22	10	0	0	0	0	0	0	12	25	124
Minimum ≤ 0°	0	2	0	0	0	0	0	0	0	0	0	0	2
Degree Days	1082	1016	886	508	83	14	16	0	143	288	541	1010	5587
Precipitation (Inches)													
Total (all types)	4.64	2.85	2.59	3.08	3.85	6.11	4.90	6.43	2.97	2.20	3.32	2.85	45.79
Departure from Normal	+2.94	+0.94	-0.52	-0.65	-0.12	+2.12	+1.53	+3.22	-0.16	-0.42	+0.77	+0.71	+9.90
Maximum in 24 Hours	1.78	1.40	1.04	0.98	1.39	2.89	2.27	1.75	1.44	1.27	1.23	1.05	2.89
Snowfall (unmelted)	7.8	9.5	3.6	0.3	0	0	0	0	0	0	8.8	9.5	39.5
Departure from Normal	+2.7	+4.2	-0.8	-0.4	0	0	0	0	0	0	+7.2	+5.1	+17.8
Number of Days													
0.01 Inch or More	17	13	14	10	9	9	8	11	8	6	13	12	130
0.50 Inch or More	2	1	1	2	2	4	3	4	2	2	3	1	27
1.00 Inch or More	1	1	1	0	2	1	1	3	2	1	1	1	15
Thunderstorms	7	0	4	5	6	8	9	7	2	1	3	1	53
Hail	2	0	1	0	0	2	0	0	0	0	0	0	5
Freezing Rain	3	2	1	0	0	0	0	0	0	0	0	0	6
Snowfall 0.1 Inch or More	9	6	5	1	0	0	0	0	0	0	4	0	30
Snowcover Trace or More	17	15	6	1	0	0	0	0	0	0	8	9	56
Average Sky Conditions (No. of Days)													
Clear	4	6	4	7	12	8	6	8	7	11	10	5	86
Partly Cloudy	3	4	9	7	6	11	19	11	8	8	3	3	94
Cloudy	24	18	18	16	13	11	6	12	15	12	17	23	185
Wind													
Prevailing Direction	SW	NW	SE	SE	SW	SW	SW	SW	SW	S	SW	S	SW
Average Speed (mph)	9.0	9.0	8.2	8.8	6.1	6.3	4.3	4.9	4.7	6.5	7.8	7.9	7.0
Peak Gust (mph)	60	54	57	50	47	43	39	42	39	38	50	52	60

CLIMATOLOGICAL DATA
URBANA, ILLINOIS, 1974

Sheet 1
Illinois State Survey

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual Summary
Temperature (°F)													
Highest	55	58	76	80	86	89	97	88	82	76	75	42	97
Lowest	-9	8	6	28	35	49	59	56	37	31	22	13	-9
Mean Maximum	34.2	39.4	57.3	63.4	69.1	76.7	87.9	80.6	71.1	65.6	48.6	37.1	60.9
Mean Minimum	20.5	23.5	34.0	43.8	52.2	58.2	66.2	62.2	51.2	43.2	34.5	27.2	43.1
Monthly Mean	27.4	31.5	42.7	53.6	60.7	67.5	77.1	71.4	61.2	54.4	41.6	32.2	51.8
Departure from Average*	+0.9	+2.5	+3.5	+2.2	-1.2	-3.9	+2.6	-2.1	-5.6	-0.9	+0.5	+1.8	+0.1
Number of Days													
Maximum ≥ 90°	0	0	0	0	0	0	14	0	0	0	0	0	14
Maximum ≤ 32°	13	10	2	0	0	0	0	0	0	0	1	5	31
Minimum ≤ 32°	24	24	14	4	0	0	0	0	0	0	14	22	103
Minimum ≤ 0°	2	0	0	0	0	0	0	0	0	0	0	0	2
Degree Days	1150	938	690	349	172	35	0	10	156	334	703	1022	5559
Precipitation (Inches)													
Total (All Types)	3.09	3.33	3.86	4.74	6.31	5.71	1.47	5.94	1.52	1.30	3.78	2.54	43.59
Departure from Average*	+0.94	+1.42	+0.75	+1.01	+2.34	+1.72	-1.90	+2.73	-1.61	-1.32	+1.23	+0.40	+7.70
Maximum in 24 Hours	0.71	1.57	0.93	1.28	1.81	2.17	0.71	2.71	0.54	0.42	1.41	0.39	2.71
Snowfall (Unmelted)	8.7	4.0	2.8	T	0	0	0	0	0	0	7.6	6.7	29.8
Departure from Average*	+3.6	-1.3	-1.6	-0.7	T	0	0	0	0	-0.1	+6.0	+2.3	+5.1
Number of Days													
0.01 Inches or More	11	6	11	14	16	11	6	9	5	8	10	15	122
0.50 Inches or More	8	6	9	8	13	8	4	9	4	4	5	8	66
Thunderstorm Days	0	0	4	5	9	5	7	6	3	0	1	0	40
Hail Days	0	0	1	2	0	0	0	0	0	0	0	0	3
Ice Pellets	0	0	1	1	0	0	0	0	0	0	1	1	4
Freezing Rain (Glaze) Days	1	0	0	0	0	0	0	0	0	0	0	2	3
Snowfall 0.1 Inch	3	1	2	0	0	0	0	0	0	0	3	5	14
Snowcover Trace	21	8	4	0	0	0	0	0	0	0	6	14	53
Average Sky Conditions (No. of Days)													
Clear	5	5	2	5	4	5	10	4	7	11	6	7	71
Partly Cloudy	7	13	10	8	10	14	16	14	10	6	5	2	115
Cloudy	19	10	19	17	17	11	5	13	13	14	19	22	179
Wind													
Prevailing Direction	SW	NW	SW	S	SE	SW	SW	SW	SW	SW	SW	SW	SW
Average Speed (MPH)	6.9	9.0	8.5	9.1	6.8	8.4	6.3	4.4	5.4	6.7	7.2	7.1	7.2
Peak Gust (MPH)	71	53	53	47	54	56	31	47	36	40	37	38	71

* Average computed from 1889-1970 Urbana data, or portions thereof.

CLIMATOLOGICAL DATA
URBANA, ILLINOIS, 1973

Sheet 1
Illinois State Water Survey

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual Summary
<u>Temperature (°F)</u>													
Highest	58	58	70	77	81	93	91	92	91	84	69	62	93
Lowest	2	5	27	26	39	56	58	57	44	38	21	-7	-7
Mean Maximum	36.8	39.5	56.5	60.0	69.4	83.5	86.0	84.0	78.3	69.8	52.4	34.6	62.7
Mean Minimum	22.7	24.0	40.1	42.8	50.0	62.7	66.4	64.9	57.1	50.3	36.6	21.1	44.9
Monthly Mean	29.8	31.8	48.3	51.4	59.7	73.1	76.2	74.5	67.7	60.1	44.5	27.9	53.8
Departure from Average*	+3.3	+3.0	+9.1	0.0	-2.2	+1.7	+1.7	+1.0	+0.9	+4.8	+3.3	-2.5	+2.1
<u>Number of Days</u>													
Maximum ≥ 90°	0	0	0	0	0	3	5	4	2	0	0	0	14
Maximum ≤ 32°	11	7	0	0	0	0	0	0	0	0	0	14	32
Minimum ≤ 32°	27	23	7	4	0	0	0	0	0	0	7	27	95
Minimum ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	2	2
Degree Days	1086	923	508	409	170	0	0	0	34	190	607	1141	5068
<u>Precipitation (Inches)</u>													
Total (All Types)	1.11	0.67	6.55	5.11	3.23	7.05	9.21	3.04	3.01	2.91	2.47	4.81	49.17
Departure from Average*	-1.04	-1.24	+3.44	+1.38	-0.74	+3.06	+5.84	-0.17	-0.12	+0.29	-0.08	+2.67	+13.28
Maximum in 24 Hours	0.61	0.27	1.25	2.52	1.12	1.44	3.24	1.76	0.98	0.70	0.69	1.47	3.24
Snowfall (Unmelted)	0.2	0.8	0.8	0.6	0	0	0	0	0	0	0.2	18.1	20.7
Departure from Average*	-4.9	-4.5	-3.6	-0.1	1	0	0	0	0	-0.1	-1.4	+13.7	-1.0
<u>Number of Days</u>													
0.01 Inches or More	5	8	18	14	12	11	10	7	13	7	10	18	133
0.25 Inches or More	1	0	10	6	5	8	8	4	5	5	4	6	62
Thunderstorm Days	0	1	7	2	2	8	8	5	2	0	1	0	36
Hail Days	0	0	1	0	1	1	0	0	0	0	0	0	3
Sleet Days	0	0	0	0	0	0	0	0	0	0	0	0	0
Freezing Rain (Glaze) Days	0	0	0	0	0	0	0	0	0	0	1	0	1
Snowfall 0.1 Inch	1	3	1	1	0	0	0	0	0	0	0	0	0
Snowcover Trace	2	9	0	0	0	0	0	0	0	0	1	13	20
Average Sky Conditions (No. of Days)													
Clear	8	7	4	5	3	7	7	7	3	10	2	1	64
Partly Cloudy	17	14	13	10	19	17	16	19	18	13	18	7	181
Cloudy	6	7	14	15	9	6	8	5	9	8	10	23	120
<u>Wind</u>													
Prevailing Direction	SW	NW	NE	SW	SW	SW	SW	SW	SE	SW	SW	SE	SW
Average Speed (MPH)	8.7	7.6	8.6	8.5	7.8	6.7	5.4	5.0	5.1	5.5	7.3	7.8	7.0
Peak Gust (MPH)	47	39	51	48	47	41	54	40	30	36	43	57	57

* Average computed from 1889-1970 Urbana data, or portions thereof.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual Summary
Temperature (°F)													
Highest	59	71	77	77	91	92	93	93	91	78	63	58	93
Lowest	-14	-1	14	20	41	43	48	50	37	27	24	2	-14
Mean Maximum	32.9	37.0	48.2	60.9	76.9	80.9	83.5	83.3	76.8	59.9	43.2	33.0	59.7
Mean Minimum	16.2	19.2	28.8	40.8	54.2	56.8	64.5	63.6	57.4	42.4	33.9	21.4	41.6
Monthly Mean	24.6	28.1	38.5	50.9	65.6	68.9	74.0	73.4	67.1	51.4	38.6	27.2	50.7
Departure from Average*	-1.9	-0.7	-0.7	-0.5	+3.7	-3.0	-0.5	-0.1	+0.3	-3.9	-2.6	-3.2	-1.0
Number of Days													
Maximum ≥ 90°	0	0	0	0	3	3	7	4	1	0	0	0	18
Maximum ≤ 32°	12	10	3	0	0	0	0	0	0	0	0	16	41
Minimum ≤ 32°	28	26	23	6	0	0	0	0	0	3	14	27	127
Minimum ≤ 0°	7	3	0	0	0	0	0	0	0	0	0	0	10
Degree Days	1246	1065	823	416	106	-	9	8	64	423	783	1164	6107
Precipitation (Inches)													
Total (All Types)	.98	.83	3.28	4.81	1.40	3.44	2.58	5.71	8.67	2.13	4.17	4.91	42.91
Departure from Average*	-1.17	-1.08	+0.17	+1.08	-2.57	-0.55	-0.79	+2.50	+5.54	-0.49	+1.62	+2.77	+7.02
Maximum in 24 Hours	.34	.25	1.00	1.39	.52	1.36	1.09	2.67	1.64	.80	1.59	1.46	2.67
Snowfall (Unmelted)	8.2	3.8	1.8	.1	0	0	0	0	0	0	4.0	1.5	19.4
Departure from Average*	+3.1	-1.5	-2.6	-0.6	0	0	0	0	0	-.1	+2.4	-2.9	-2.3
Number of Days													
0.01 Inches or More	7	9	8	13	8	11	7	9	13	9	11	14	119
0.25 Inches or More	1	1	6	7	2	5	3	6	8	4	6	5	54
Thunderstorm Days	0	0	2	8	2	7	4	6	6	0	0	1	36
Hail Days	0	0	0	1	0	0	0	1	0	0	0	0	2
Sleet Days	0	1	1	0	0	0	0	0	0	0	0	1	3
Freezing Rain (Glaze) Days	0	1	2	0	0	0	0	0	0	0	0	8	11
Snowfall 0.1 Inch	3	3	3	1	0	0	0	0	0	0	3	4	17
Snowcover Trace	1	7	2	1	0	0	0	0	0	0	2	1	14
Average Sky Conditions (No. of Days)													
Clear	11	9	9	7	12	11	7	7	6	9	1	2	91
Partly Cloudy	4	6	12	10	13	13	16	17	12	9	9	11	132
Cloudy	16	14	10	13	6	6	8	7	12	13	20	18	143
Wind													
Prevailing Direction	S	SW	N	S	NE	N	S	SW	SW	SW	NW	NW	SW
Average Speed (MPH)	8.5	8.2	8.9	8.2	5.8	6.0	5.4	5.6	6.7	6.5	6.6	6.9	6.9
Peak Gust (MPH)	52	44	47	40	51	37	36	56	49	32	39	38	52

* Average computed from 1889-1970 Urbana data, or portions thereof.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual Summary
Temperature (°F)													
Highest	47	60	71	84	85	96	93	90	93	90	76	64	96
Lowest	-1	-4	19	28	37	53	51	53	44	38	17	13	-4
Mean Maximum	31.5	37.0	45.3	64.8	70.8	89.2	81.7	82.3	80.1	72.9	51.6	44.2	62.6
Mean Minimum	14.1	22.3	28.5	39.9	49.5	64.9	62.0	60.8	59.7	51.7	34.3	30.6	43.2
Monthly Mean	22.8	29.7	36.9	52.4	60.2	77.1	71.9	71.6	69.9	62.3	43.0	37.4	52.9
Departure from Average*	-4.1	+0.4	-2.5	+1.3	-1.5	+5.9	-3.4	-1.8	+3.2	+7.2	+2.1	+7.2	+1.1
Number of Days													
Maximum ≥ 90°	0	0	0	0	0	18	1	3	5	1	0	0	28
Maximum ≤ 32°	16	9	3	0	0	0	0	0	0	0	1	2	31
Minimum ≤ 32°	31	22	25	6	0	0	0	0	0	0	15	16	115
Minimum ≤ 0°	1	2	0	0	0	0	0	0	0	0	0	0	3
Degree Days	1299	984	861	395	183	-	-	-	55	129	656	845	5407
Precipitation (Inches)													
Total (All Types)	1.03	3.27	1.46	0.70	3.84	1.22	10.96	1.39	4.77	0.72	1.59	6.16	37.11
Departure from Average*	-1.13	+1.30	-1.66	-2.87	-0.25	-2.84	+7.58	-1.78	+1.71	-1.93	-0.96	+4.09	+1.26
Maximum in 24 Hours	0.94	1.67	0.51	0.26	1.61	0.49	3.56	0.57	1.81	0.30	0.52	1.95	3.56
Snowfall (Unmelted)	4.2	3.0	3.2	0.2	0	0	0	0	0	0	4.1	7	14.7
Departure from Average*	-0.6	-2.1	-1.1	-0.5	-	-	-	-	-	-0.1	+2.5	-4.5	-6.4
Number of Days													
0.01 Inch or More	6	12	9	5	7	7	9	7	9	5	9	11	96
0.25 Inch or More	1	4	2	1	4	2	9	2	7	2	3	6	43
Thunderstorm Days	0	2	2	2	7	5	8	6	2	0	0	0	34
Hail Days	0	0	1	0	0	0	0	0	0	0	0	0	1
Sleet Days	0	0	0	0	0	0	0	0	0	0	1	1	3
Freezing Rain (Glaze) Days	0	1	0	0	0	0	0	0	0	0	0	1	5
Snowfall 0.1 Inch	1	3	0	0	0	0	0	0	0	0	0	1	5
Snowcover Trace	3	3	3	1	0	0	0	0	0	0	4	0	14
Snowcover	6	4	2	1	0	0	0	0	0	0	3	2	18
Average Sky Conditions (No. of Days)													
Clear	8	3	6	9	7	10	9	9	5	9	5	5	85
Partly Cloudy	10	9	13	14	9	17	14	20	17	16	11	4	154
Cloudy	13	16	12	7	15	3	8	2	8	6	14	22	126
Wind													
Prevailing Direction	W	S	NW	S	S	SW	S	NE	S	S	S	S	S
Average Speed (MPH)	8.4	10.3	10.2	8.8	7.5	6.5	5.3	5.0	5.8	5.7	7.7	8.4	7.5
Peak Gust (MPH)	56	65	63	50	48	43	41	42	46	52	44	81	81

* Average computed from 1889-1962 Urbana data, or portions thereof.

CLIMATOLOGICAL DATA
URBANA, ILLINOIS, 1970

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Summary
<u>Temperature (°F)</u>													
Highest	62	55	63	84	90	96	100	92	93	79	58	68	100
Lowest	-12	-3	18	30	37	50	52	56	43	35	10	11	-12
Mean Maximum	25.9	36.6	44.9	63.8	77.2	81.2	85.1	82.9	80.0	64.4	47.8	41.1	60.9
Mean Minimum	10.4	19.4	29.8	44.0	54.8	60.8	64.2	63.6	57.9	46.3	33.2	25.2	42.5
Monthly Mean	18.2	28.0	37.4	53.9	66.0	71.0	74.7	73.3	69.0	55.4	40.5	33.2	51.7
Departure from Average*	-8.7	-1.3	-2.0	+2.8	+4.3	-0.2	-0.6	-0.1	+2.3	+0.3	-0.4	+3.0	-0.1
<u>Number of Days</u>													
Maximum ≥ 90°	0	0	0	0	1	4	4	3	3	0	0	0	15
Maximum ≤ 32°	20	9	1	0	0	0	0	0	0	0	2	9	41
Minimum ≤ 32°	30	26	23	5	0	0	0	0	0	0	10	23	117
Minimum ≤ 0°	9	1	0	0	0	0	0	0	0	0	0	0	10
Degree Days	1443	1004	849	352	90	-	-	-	41	303	727	983	5792
<u>Precipitation (Inches)</u>													
Total (All Types)	0.52	0.86	2.33	7.71	1.72	3.26	4.58	3.12	6.99	3.07	1.34	1.01	36.51
Departure from Average*	-1.64	-1.11	-0.79	+4.14	-2.37	-0.80	+1.20	-0.05	+3.93	+0.42	-1.21	-1.06	+0.66
Maximum in 24 Hours	0.15	0.24	1.17	2.97	0.83	1.56	2.01	2.30	3.17	0.46	0.89	0.42	3.17
Snowfall (Unmelted)	7.6	6.1	4.9	1.8	0	0	0	0	0	0	T	0.8	21.2
Departure from Average*	+2.8	+1.0	+0.6	+1.1	-	-	-	-	-	-0.1	-1.6	-3.7	+0.1
<u>Number of Days</u>													
0.01 Inch or More	9	7	11	15	10	11	11	9	17	11	9	6	126
0.25 Inch or More	0	0	4	7	1	3	4	2	5	3	3	2	34
Thunderstorm Days	0	0	2	9	7	5	11	5	8	2	1	0	50
Hail Days	0	0	1	2	0	0	0	0	0	0	0	0	3
Sleet Days	1	0	0	0	0	0	0	0	0	0	0	1	2
Freezing Rain (Glaze) Days	0	1	0	0	0	0	0	0	0	0	0	2	3
Snowfall 0.1 Inch	8	4	4	1	0	0	0	0	0	0	2	2	21
Snowcover Trace	27	10	4	1	0	0	0	0	0	0	1	2	45
<u>Average Sky Conditions (No. of Days)</u>													
Clear	2	6	5	5	9	9	6	13	8	7	1	5	76
Partly Cloudy	15	11	8	12	11	12	18	10	12	11	12	15	147
Cloudy	14	11	18	13	11	9	7	8	10	13	17	11	142
<u>Wind</u>													
Prevailing Direction	W	S	N	S	S	S	S	E	S	S	S	S	S
Average Speed (MPH)	7.9	9.2	7.9	8.9	8.5	7.0	5.8	5.0	5.5	5.6	7.8	8.0	7.3
Peak Gust (MPH)	35	40	36	42	41	37	45	39	34	44	44	58	58

*Average computed from 1889-1962 Urbana data, or portions thereof.

